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UNION COLLEGE

IN KENTUCKY

DIRECTORY FOR CORRESPONDENCE

Academic Work	*Dean of the Faculty*
Admission to the College	*Director of Admissions*
Admission to the Graduate School	*Dean of the Graduate School*
Alumni Affairs	*Alumni Secretary*
Applications for Admission, Catalogues	Director of Admissions
Charges and Payments of Bills	*Business Manager*
Gifts and Bequests	*Director of Development*
Housing for Women	*Dean of Women*
Personal Welfare, Health of Students, Housing (Men)	*Dean of Students*
Scholarships, Workships and Loans	*Director of Student Aid*
Transcripts—Academic Records	*Registrar*

LOCATION AND TELEPHONES

All offices are located in Speed Hall unless otherwise noted. The telephone number for Union College is (606) 546-4151. The extensions listed will contact you with the appropriate office.

President	Extension 111
Dean of the Faculty	Extension 124
Dean of the Graduate School	Extension 112
Business Manager and Treasurer	Extension 116
Dean of Students	Extension 118
Dean of Women ..... Pfeiffer Hall	Extension 141
Director of Public Information	Extension 110
Director of Admissions	Extension 117
Director of Development	Extension 195
Director of Student Aid	Extension 171
Registrar	Extension 114

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March, 1972

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UNION COLLEGE
BARBOURVILLE, KENTUCKY 40906

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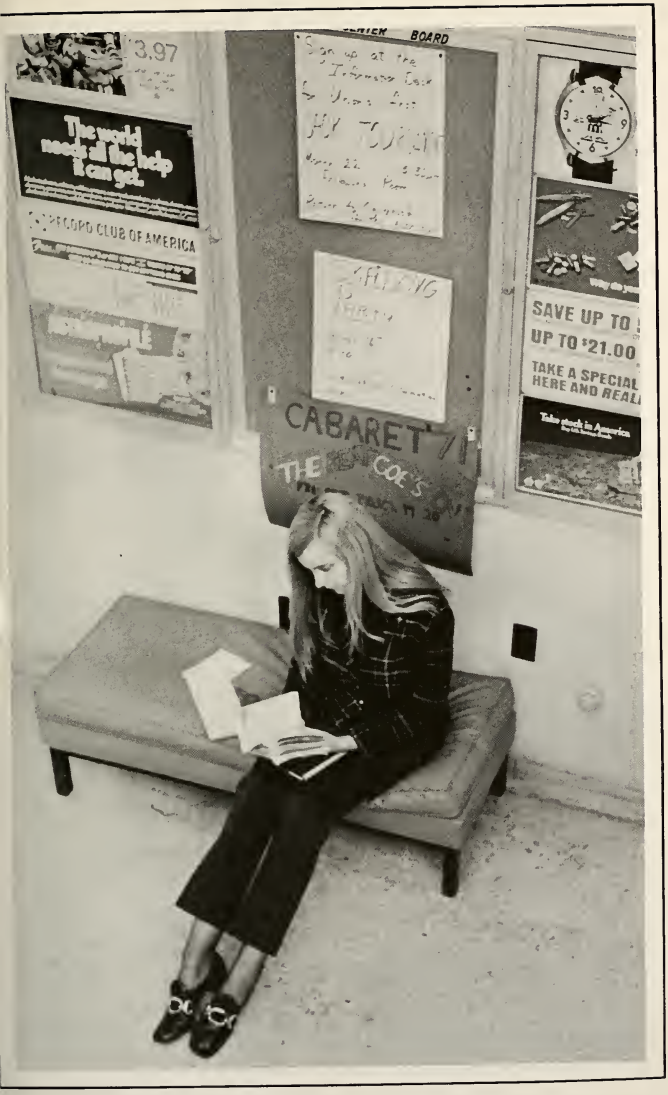


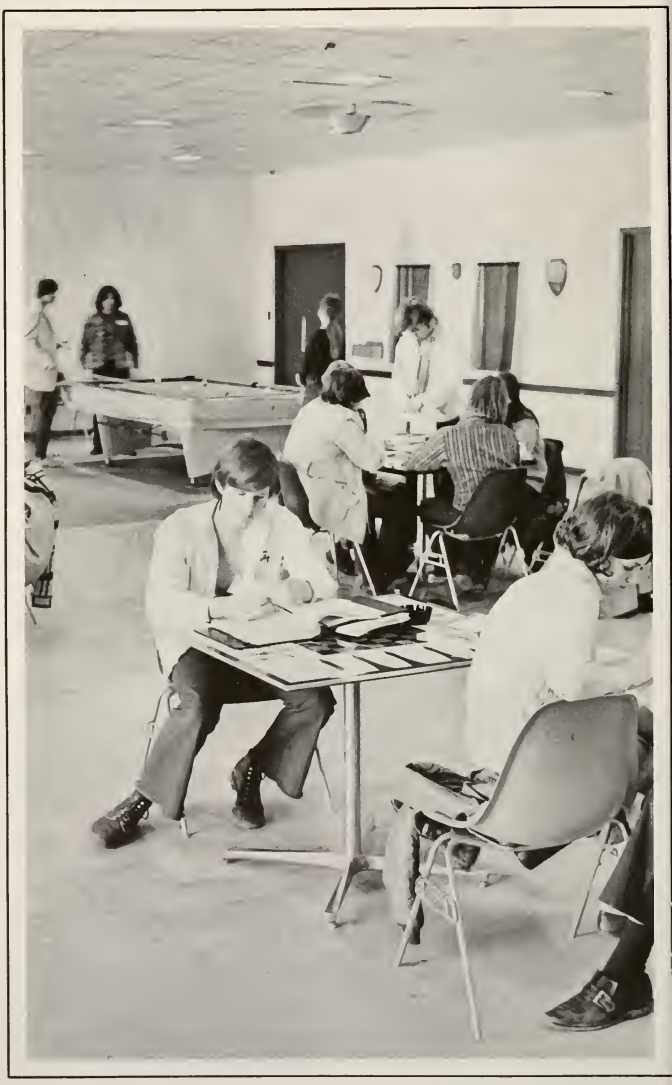
ABIGAIL E. WEEKS MEMORIAL LIBRARY
COLLEGE
BAR LE, KENTUCKY

A College With A Purpose

Union College, affiliated with The United Methodist Church, is a non-sectarian coeducational institution serving students without regard to race, creed, or color. The college, limited by design to approximately 1200 students, emphasizes stimulating teaching and a concern for individual needs. Classes are small, the curriculum is flexible, opportunities for counseling and guidance are abundant, and widespread student involvement in institutional governance aids in the development of responsible leadership.

As a liberal arts institution, Union College seeks to help its students acquire a broad general education which includes an understanding of other cultures. In addition, the curriculum provides both professional and pre-professional study opportunities in selected fields. The Graduate School curriculum, focusing on the needs of public school personnel, leads to the Master of Arts in Education degree.

Although Union College gives priority to its teaching responsibilities rather than research and public service, opportunities are provided for students to mature and learn through guided research and service experiences. The campus atmosphere stimulates intellectual curiosity and academic competence, encourages commitment to Christian ideals, and supports the development of the spiritual, social and physical resources needed to live creatively in a changing world.



History Of Union College

Union College was founded in 1879 by a group of progressive citizens of Barbourville who formed a stock company and secured the main part of the present campus. In 1880 the first building was formally opened on the site of what is now known as the Classroom Building.

The college was purchased by the Kentucky Conference of the Methodist Episcopal Church in 1886 and Daniel Stevenson, President of Augusta Collegiate Institute at Augusta, Kentucky, was made President of the reorganized institution. During the next administration, the college came into possession of the bequest of Mrs. Fanny Speed. The Fanny Speed Hall and the central heating plant were constructed.

The college department was discontinued in 1908 and for eight years the Institution was maintained as a Junior College, an academy, and an elementary school. It became a *bona fide* college again in the Presidency of Ezra T. Franklin, who inaugurated a program of development during which the Memorial Gymnasium and a home for the President were built, and the invested funds of the college were materially increased. In 1927 the College had been accredited by the University of Kentucky as a four-year college of A grade.

President John O. Gross emphasized the improvement of the curriculum and the building of a strong faculty. His ambition was to see Union College fully accredited. In 1931 it was accredited by the University Senate of the Methodist Episcopal Church, and in 1932 full accreditation was realized when it was made a member of the Southern Association of Colleges and Schools. The Board of Regents of the University of the State of New York placed Union College on its accredited list in 1937. During this administration land adjacent to the campus was purchased, a maintenance building was erected, and the financial structure was reorganized.

In Conway Boatman's twenty-one years of leadership the college achieved marked progress in both its educational and plant improvement programs. Seven new buildings were completed and others were enlarged. The curriculum was expanded, endowment funds were increased and a markedly improved program of faculty salaries and benefits was adopted.

Mahlon A. Miller was elected to the presidency in 1959. In 1960 a Master's degree program was introduced and plant expansion continued with the development of College Park, a faculty residential area. The college is now in the midst of a "Program for the Seventies" that embraces a multi-million dollar series of academic and plant improvements.

LOCATION

Union College is located in Barbourville, a residential town of three and a half thousand, on U.S. highway 25E halfway between Lexington, Kentucky, and Knoxville, Tennessee. The historic Wilderness Road runs along the eastern edge of the campus. The newly completed Cumberland Gap National Park is thirty-five miles away. The Doctor Thomas Walker State Park is four miles from the campus and in adjoining counties are the Cumberland Falls State Park, the Levi Jackson State Park and the Pine Mountain State Park.

The county seat of Knox County, Barbourville, is served by Greyhound buses enroute to Knoxville, Lexington, Louisville, Cincinnati, and Harlan. The Louisville and Nashville Railroad has express and freight service through Barbourville. The London-Corbin Airport, approximately thirty-miles from the campus, is served by the Piedmont Airlines.

CAMPUS AND BUILDINGS

On one of the older campuses of the South, Union College is proud of its Georgian colonial buildings. Shaded by overhanging elms, the red brick buildings give the campus a majestic charm of dignity and beauty.

Speed Hall (Administration Building), 1897-1905. A gift from the estate of Mrs. Fanny Speed of Louisville, Ky. Her bequest also partially financed the building of the Classroom Building and Stevenson Hall.

Maintenance Building equipped by a gift from the estate of Robert Norton, New Albany, Indiana.

Classroom Building (formerly the Administration Building), 1907.

Stevenson Hall—Men's Dormitory, 1907. Wings added 1956.

Dramatic Arts Center, 1919.

Baldwin Place, the home of the President, 1925. The gift of Mr. and Mrs. F. E. Baldwin, Elmira, N.Y.

Abigail E. Weeks Memorial Library, 1941. Furnished by a gift from Mrs. Abbie E. Stewart.

Veterans Building, 1942. Classrooms and laboratories (to be demolished).

Pfeiffer Hall—Women's Dormitory, 1942. Wing added 1960. The original wing was a gift from the estate of Mr. and Mrs. Henry Pfeiffer of New York City.

Home Economics Building (Tye House), 1946.

Conway Boatman Chapel and Fine Arts Building, 1949.

College Courts—Residences for married students, 1954. Expanded in 1964.

Physical Education Building, 1964, including the Swimming Pool, 1957.

Lakeside Residence Hall, Men's Dormitory, 1964.

Student Center, 1964.

Campus Religious Center, 1969.

Faculty Residences: 411 College Street, 416, 420, 422 North Main Street, Langford Apartments, 108 and 120 College Park Drive.

Environmental Education Center, Cumberland Gap National Historical Park, Middlesboro, Kentucky 40965.

Science Building, under construction.

Data Processing Center.

Calendar 1972-1973

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Calendar 1972-1973

Summer Session 1972

June 4, Sunday	Dormitories open, 8:00 a.m. First meal served college dining hall, 5:00 p.m.
June 5, Monday	Registration for First Term.
June 6, Tuesday	Classes begin, 7:30 a.m.
June 7, Wednesday	Last date to register for first term and last date for filing application for a degree in August.
June 30, Friday	Last date to drop a course.
July 7, Friday	First term ends, 4:00 p.m.
	Second Term
July 10, Monday	Registration for Second Term.
July 11, Tuesday	Classes begin, 7:30 a.m.
July 12, Wednesday	Last date to register for second term.
August 4, Friday	Last date to drop a course.

August 11, Friday	Summer Session Commencement, 10:30 a.m. Last meal served in college dining hall, 12:00 noon. Dormitories close, 4:00 p.m.
September 9, Saturday	Faculty Conference.
September 10, Sunday	8:00 a.m., dormitories open for all students. 12:00 noon, first meal served in dining hall. 1:30 p.m., registration for freshmen. 7:30 p.m. Orientation Program for freshmen and transfer students, attendance required.
September 11, Monday	8:30 a.m., registration for all upperclassmen. Freshmen Orientation.
September 12, Tuesday	Classes begin, 8:00 a.m.
September 16, Saturday	Registration of in-service teachers for Saturday classes.
September 23, Saturday	11:30 a.m., last day to add a class and apply for graduation for January 1973.
October 5, Thursday	College Convocation, 10:20 a.m.
October 28, Saturday	Mid-semester vacation begins after last class.
October 29, Sunday	Dormitories close 12:00 noon.
October 30, Monday	Mid-semester grades to be reported to the Registrar by 9:00 a.m.
November 5, Sunday	Dormitories open 12:00 noon. First meal served in college dining hall, 5:00 p.m.
November 6, Monday	Classes resume 8:00 a.m.
November 8, Wednesday	Last day to drop a course or change to elect a course for Cr/NCr.
November 23, Thursday	Thanksgiving Day Holiday.
November 24, Friday	Classes resume 8:00 a.m.
December 18-21	Final Examinations.
December 21, Thursday	Christmas Vacation begins after last examination. Last meal served in college dining hall, 5:00 p.m.

December 22, Friday	Dormitories close 12:00 noon.
January 7, Sunday	Dormitories open 12:00 noon. First meal served in college dining hall, 5:00 p.m.
January 8, Monday	January Interim Term begins.
February 2, Friday	First Semester ends.
February 3, Saturday	Registration of in-service teachers.
February 5, Monday	Registration for second semester
February 6, Tuesday	Classes begin 8:00 a.m.
February 17, Saturday	Last date to add a class and last date one may file for graduation in May, 1973.
March 31, Saturday	Mid-semester marks to be reported to the Registrar by 12:00 noon. Spring Vacation begins after last class. Last meal served in dining hall, 5:00 p.m.
April 1, Sunday	Dormitories close, 12:00 noon.
April 15, Sunday	Dormitories open, 12:00 noon. First meal served in the college dining hall, 5:00 p.m.
April 16, Monday	Classes resume 8:00 a.m.
April 18, Wednesday	Last day to drop a course and last day to elect a course for Cr/NCr.
May 3, Thursday	Honors Day Program, 10:20 a.m.
May 17, Thursday	Study Day.
May 18, Friday	Final Examinations begin.
May 19, Saturday	Saturday classes meet.
May 26, Saturday	Saturday classes meet.
May 27, Sunday	Ninety-fourth Annual Commencement, 3:00 p.m. Last meal served in college dining hall, 12:00 noon.
June 3, Sunday	Dormitories open, 8:00 a.m. First meal served in college dining hall, 5:00 p.m.

Summer Session 1973

June 4, Monday	Registration for First Term.
June 5, Tuesday	Classes begin, 7:30 a.m.
June 6, Wednesday	Last date to register for first term and last date for filing application for a degree in August.
June 29, Friday	Last date to drop a course.
July 6, Friday	First term ends, 4:00 p.m.
	Second Term
July 9, Monday	Registration for Second Term.
July 10, Tuesday	Classes begin, 7:30 a.m.
July 11, Wednesday	Last date to register for second term.
August 3, Friday	Last date to drop a course.
August 10, Friday	Summer Session Commencement, 10:30 a.m. Last meal served in college dining hall, 12:00 noon. Dormitories close, 4:00 p.m.

Academic Requirements

Student Load

The normal undergraduate student load is sixteen semester hours per semester. Students who have an average academic standing may register for a maximum of eighteen semester hours credit per semester. Students who attain a "B" average are permitted to earn up to twenty-one semester hours per semester.

The normal graduate student load is two-thirds that of the undergraduate.

The maximum load in each summer term is generally six semester hours. Students whose cumulative grade point average is B or better may request permission from the Dean of the Faculty to take seven hours a term. Graduate students may take a maximum load of only six semester hours.

Class Attendance

1. Class attendance is required. Each student is responsible for all work from the first day of class and is expected to attend all meetings of the classes for which he is registered. This is regarded as a matter of individual student responsibility.
2. All faculty members are expected to keep accurate records of class attendance.
3. Class absences due to circumstances beyond the control of the student will be excused by the Dean of the Faculty if request is made within one week of return to the campus. Classwork or tests in these classes must be made up.
4. Class work and tests missed due to the illness of the student can be made up only when the student presents the teacher with an excuse card signed by the College Nurse, within one week after he returns to the campus.
5. Class work and tests missed by a student while he is participating in an activity sponsored by Union College will be made up only when the faculty sponsor of such an activity and the Dean of the Faculty sign the official absence list of students.

6. *A student is not automatically withdrawn when he stops attending a class.* Official withdrawals are made only on forms provided by the Registrar's Office. It is the student's responsibility to complete this form, obtain the signatures needed, and return it to the Registrar's Office.

General Assembly Programs

Full-time students must earn one academic credit for graduation by attending General Assembly Programs (GAP). Sixteen assemblies will equal one semester hour credit. The one mandatory academic credit must be earned within four consecutive semesters' residence at Union College, with all GAP credits accumulated outside this period allowed toward additional academic credit, up to a maximum of four semester hours. No fee is charged for academic credit earned in attending assemblies. Students who attended assemblies before this official program for credit was approved, effective January 28, 1972, may check on their current assembly credit standing. Transfer students with less than 78 hours must earn the one mandatory semester hour of credit by attending assemblies.

Examinations and Reports of Marks

Examinations are held at the close of each semester. Tests are held at such times during each semester as the instructors may determine. Final marks are reported by the instructors to the Registrar. A copy of this report is given to the student, and a copy is sent to his parents. Only the final marks become a part of the permanent record. Test and examination marks together with the daily marks constitute the final mark.

The Marking System and Quality Points

Marks are reported in letters as follows:

A.—Represents distinctly superior work, valued at four quality points for each semester hour.

B.—Represents above average work, valued at three quality points for each semester hour.

C.—Represents average work, valued at two quality points for each semester hour.

*Cr.—Indicates that a course has been passed satisfactorily.

*Students may take two courses per calendar year on a Credit/non-Credit basis. Only two courses may be taken in a single discipline. A student must apply in the Registrar's office for Cr/non-Cr before the last date for withdrawing from a course. When the instructor turns in a letter grade at the end of the semester, a D or above will be recorded as Cr.; an F will not be recorded at all, but the student loses the credit hours. This Cr./non-Cr. option encourages students to take courses they otherwise might not attempt. The semester hours earned by Cr. count, but no quality points are earned.

D. — Represents inferior but passing work, valued at one quality point.

F. — Indicates failure with 0 credits and 0 quality points for each semester hour.

W. — Indicates that a student withdrew during the first nine weeks of the semester.

I. — Indicates that some required work of the course has not been completed. An "I" received at the end of any semester must be removed before the end of the next semester if the student is enrolled for that term. If the student is not enrolled, the "I" must be removed before the end of the 12-month period following the date on which the "I" was received. If an "I" is not removed within that time limit, it automatically becomes "F".

A student who does not take final examinations at the end of a semester will be given temporary registration in the next semester within the time allowed for registration. If all arrangements for taking final examinations are made within this period, the temporary registration will become a permanent registration. If arrangements for the final examinations are not made, the student's registration will be cancelled. All final examinations for courses which are prerequisite to courses in which the student may be enrolled the next semester, must be taken by the end of the registration period. Failure in any of these prerequisite courses will cancel the student's enrollment in an advanced course.

Quality Point Standing

The quality point standing of a student is determined by dividing the total quality points which he has earned by the total number of semester hours for which he has registered minus the number of hours of Cr. on his record.

Honor Students

Union College recognizes excellent scholarship in two ways — the dean's list and graduation with honors. During the regular semester, full time students who have earned a 3.00 average for the semester are placed on the dean's list. See page 19 for DEGREES WITH DISTINCTION.

Probation

Each student is expected to do "C" work. A student with a standing less than "C" is placed on academic probation for the following semester. He may continue in college on probation an additional semester if his work and character indicate his ability to succeed. *A student who has once been on probation may be dropped at any time his academic standing falls below a "C" average.*

Suspension

Union College will not accept any credits earned while a student is under academic or disciplinary suspension.

Inter-Departmental Courses

In several departments, provision is made for allowing courses outside the department to be counted on a major or a minor. Such courses are termed Inter-departmental Courses. They are governed by the following regulations.

1. The student's major professor must give permission for enrollment in any Inter-departmental Course which is to be counted on a major or a minor.
2. At the time of registration the student must decide the department in which he wishes a given Inter-departmental Course to be counted.

Extension and Correspondence

Any student planning to graduate from Union College must receive permission from the Registrar to register for correspondence or extension courses. Credits cannot be recorded unless prior arrangements are made.

Students enrolled for a full-time program of study shall defer work on all correspondence and extension courses during the term for which they are registered.

Not more than twelve semester hours of correspondence or extension work done in one academic year will be accepted by the College. Not more than one-fourth of the courses in a major may be done by extension. Not more than thirty-two semester hours of extension and correspondence credit will be accepted toward a degree.

Not more than six semester hours extension or correspondence may be accepted during the Senior year. Students with sixty semester hours or fewer at Union may offer six semester hours non-residence in the last thirty-six; students with sixty-one semester hours or more may offer six semester hours out of the last twenty-four.

Failures or quality point deficiencies in any course done in residence cannot be removed by extension or correspondence work.

Graduating seniors must complete any correspondence work needed for graduation at least three weeks before the date of Commencement.

Graduation Requirements

Requirements for Graduation, Bachelor of Arts Degree, Bachelor of Science Degree, and Bachelor of Music Degree (See Music Section).

The candidates must satisfy the following requirements:

1. Minimum of 128 semester hours. Thirty of the last thirty six must be earned

in residence at Union College. Students who have earned as many as sixty-one semester hours at Union College may graduate with only eighteen of the last twenty-four hours earned in residence. At least forty semester hours must be in courses numbered 300 and above.

2. Quality point standing of 2.00 overall and at Union. No grade below "C" can be accepted on a major or a minor.
3. Completion of the following General Requirements:
   I. Humanities: 18 semester hours
   Approved courses in art, drama, music, speech; Foreign language; Religion; Philosophy; English Language and Literature.
   II. Social Science: 9 semester hours
   History; Political Science; Psychology*; Sociology; Economics; Geography.
   III. Natural Sciences: 8 semester hours
   Biology; Chemistry; Math; Physics; Physical Science.
   a. In I. and II. no more than six hours may be taken in any one discipline. In III. all eight hours may be taken in one discipline.
   b. Hours taken for a first major may not be counted toward the Group Requirements.
   c. Students taking an Area may count the Area hours toward the Group Requirements.
   d. In addition to the above-listed Group Requirements all students must complete six hours of English Composition.
4. For the Bachelor of Arts degree, two years of a foreign language offered by the college are required plus other graduation requirements. Students who have had a foreign language in high school should apply to the Head of the Department in regard to placement.

   Students who have had the equivalent of two years of foreign language at another college should see the Head of the Language Division about the requirements in language for graduation from Union.
5. For the Bachelor of Science degree the student must meet all graduation requirements, including a Major or Area. A foreign language may or may not be required as determined by the individual discipline.
6. Union College offers a Bachelor of Music degree. See Music Section for these requirements.
7. Completion of either:
   a. A Major of 24-30 semester hours as determined by the faculty of the individual discipline.
   b. An Area of 48 semester hours, the structure of which is determined by the faculty of the Division in which the Area requirements are met.

Majors are offered in Accounting, Art, Biology, Business, Chemistry, Drama, Elementary Education, English, French, German, Health and Physical Education, History, Home Economics (non-vocational), Mathematics, Music, Philosophy, Physics, Political Science, Psychology, Religion, Social Work, and Sociology.

Areas are offered in Business, English, Environmental Studies, Health and Physical Education, Music, Science, and Social Science.

*Not acceptable as a Social Science in the Teacher Education Program.

A student may elect to take a Minor of 21 semester hours. Minors are offered in the major fields listed above, plus Economics, Library Science, and Secretarial Practice.

The course requirements for Majors, Minors, and Areas are listed under the respective division of instruction.

At registration, Juniors must indicate the Major (and Minor if elected) field of study on forms furnished by the Registrar. The Heads of curricula will act as advisors to students majoring in their curricula.

8. At least forty semester hours offered for graduation must be earned in Junior and Senior courses (300 and above); at least six semester hours 300 and above earned at Union, must be included in any Minor; at least nine semester hours 300 and above, earned at Union, must be included in any Major; at least twelve semester hours 300 and above (evenly distributed in the two fields if this is a combined major), earned at Union, must be included in a thirty hour Major; at least eighteen semester hours 300 and above, earned at Union, must be included in an Area.
9. At registration each Senior must specify the tentative date on which he expects to graduate.
10. Advice in arranging schedules and choosing courses is always given gladly; however, each student is responsible for completing all requirements.

Combined Degrees

The Bachelor degrees may be granted to students who have completed three years of work at Union College and one year of work in an accredited professional school, with the following provisions:

1. The work in the professional school must continue the curriculum in which the student has been enrolled at Union College (prelaw, predentistry, premedicine, etc.)

2. The student must have completed satisfactorily the minimum requirements for three years of pre-professional work at Union College (ninety-six semester hours with a quality-point standing of at least 2.00) and also the general college requirements for graduation, including the foreign language requirement if a B.A. is desired.

3. The student must have completed satisfactorily the minimum requirements for one year of study at the accredited professional school in which he is enrolled. The number of credits at the end of the four years of study must total at least 128 semester hours.

Degrees with Distinction

Honors in scholarship are recorded on the diplomas of the students winning them, and published on the Commencement program. There are three

grades of honors designated respectively: *cum laude, magna cum laude, and summa cum laude*. These honors are conferred at graduation upon students who satisfy the following conditions of scholarship:

The honor of *cum laude* is awarded to those students who have earned an average standing of 3.0 (B), overall and at Union.

The honor of *magna cum laude* is awarded to those students who have earned an average standing of 3.5 overall and at Union.

The honor of *summa cum laude* is awarded to those students who have earned an average standing of 3.8 overall and at Union.

Students coming from other colleges may receive general honors on completing 61 semester hours of resident study and satisfying the conditions of scholarship prescribed by the Faculty, provided they furnish also such evidence of high scholarship in the institution from which they come as may, in the judgment of the Faculty, entitle them to become candidates for honors under the regulations.

As a reward for excellence in scholarship and to promote diligence in study and encourage high ideals, the honorary scholastic fraternity of Iota Sigma Nu was founded on May 26, 1936. Membership is open upon election to:

(a) All who have met the requirements for graduation with honors.

(b) All students who have at least 74 hours with a 3.2 quality point standing or 100 hours with a 3.0 quality point standing and who have completed a minimum of two years in residence at Union College.

Planned Curriculum

At the beginning of the junior year, a planned curriculum will be made out by the Registrar's Office at the student's request. This is a binding agreement between the college and student. Once the curriculum has been completed only changes approved by the Registrar are binding on the college.

Bulldogs
44
34
14

Special Programs

Advanced Placement

Students at Union College who have had superior preparation in certain curricular areas have regularly been placed in advanced course sections. In certain cases credit will be given by an examination administered by the Head of the Department. The College will also grant academic credit to those incoming freshmen who have successfully participated in the Advanced Placement Program of the College Entrance Examination Board. Interested students should consult the publication "Advanced Placement Program" of the College Board Advanced Placement Examinations, Box 592, Princeton, N.J., and their High School Guidance Counselors. Further information on the program may be obtained from the Registrar or the Dean of the Faculty.

Advanced Placement for Veterans

Academic credit is granted to veterans for advanced placement, in accordance with the American Council on Education. Up to 60 semester hours will be granted, on a combined basis, from College Level Examination Program (CLEP) tests, courses approved by the U.S. Armed Forces Institute, credit from service schools, correspondence and extension courses. Additional information on advanced placement for veterans may be obtained from the Dean of the Faculty or the Admissions Office.

Pre-Registration

The College makes arrangements for all students to pre-register for courses. This is validated and fees paid on the officially scheduled Registration date. Students are able to consult with faculty in their offices and receive more careful guidance with pre-registration rather than the traditional one or two-day registration procedures. Students may make changes in Pre-registration of classes, with no charge, as late as the official Registration date. Freshmen and transfer students are encouraged to register by mail before coming to the campus. These innovations are intended to assist the students in receiving as much guidance as possible, and make registration procedures as simple and convenient as possible.

January Interim Term

The first semester has been divided into two parts, from September through December, and a separate term and registration for January. The

work completed for January receives four semester hours credit and is required for all full-time students. During the January Interim term, special projects and courses are offered, both on and off campus. Students may select certain work-study arrangements, foreign study projects, regular courses, and independent study projects. The tentative schedule for the January Interim is available in the spring, and final decisions and registration take place about October 1. The January Interim is intended to provide students with unusual and challenging opportunities to broaden and further their education.

Environmental Studies Program

The college operates a special campus in nearby Cumberland Gap National Historical Park as a unique Environmental Studies Center. The campus includes 15 buildings and 100 acres within the huge park. On the undergraduate level, the college offers an area in Environmental Studies, which provides the student with a solid background in a specific discipline and an area of environmental emphasis. A student may select the field of his intellectual interest; for example a student interested in population policy may elect a major in sociology with a geography-environmental studies combination, or a student interested in ethical issues relating to our environmental value system might combine a major in philosophy with economics and environmental studies. Many discipline combinations are possible, which can prepare the student for additional study and employment in his chosen discipline or in fields such as environmental engineering, city management, and urban planning. Graduate work, towards a Master of Arts in Education degree, is also offered in environmental studies.

College For High School Students

Superior high school students, recommended by their Principals, are permitted to take certain college freshmen courses in the summer sessions between their junior and senior years in high school and between their graduation and the opening of the regular fall semester. Credit earned in these courses will be recorded after the student has been regularly admitted to college following his graduation from high school and after he has completed twenty-four semester hours at Union with a "C" average.

School Social Worker

The college offers a curriculum to prepare students for positions as School Social Workers. The Kentucky Department of Education has approved the curriculum and graduates receive certification. Further information on this program is available from the Social Work professor.

Honors Program

Superior students with a minimum grade point average of 3.50 are eligi-

ble to apply for honors work in their major fields. Students admitted to Honors candidacy are expected to be capable of creative independent study and research. They are subject to general college rules pertaining to the departmental major. The immediate supervision of the program will be the responsibility of the major department but important changes in the program will be reviewed by the Honors Committee. A student may register for no more than three hours credit for each semester of his senior year. He may be dropped from the Program if in the judgment of his department he is unable to do the work. An Honors Thesis is required as well as an oral examination before a committee of four professors, including the major professor and two professors outside of the department. A copy of the Honors Thesis must be deposited with the college library.

Interdisciplinary Seminar

This is available for superior upperclassmen and graduate students.

Junior Year Abroad

In accordance with the policy of encouraging students to study abroad Union College will give academic credit to students who participate in the Junior Year in Freiburg or the junior year program of the American College at the University of Poitiers. Interested students should apply to the head of the Department of Languages.

Saturday Classes

To accommodate in-service teachers a limited number of classes are offered on Saturday each semester. Six semester hours of undergraduate or six semester hours of graduate credit may be earned. The requirements for admission are the same as for regular classes. *For further information write to the Director of College Relations, Union College, Barbourville, Kentucky.*

Extension Program

Extension courses will be offered in communities throughout Southeastern Kentucky when requested by the school officials or an interested group of prospective students. The college sends a representative to the community to register and counsel with the students. Courses may be on the undergraduate or graduate level. They are usually conducted in a public building approved as an adequate classroom.

Summer Session

Union College has two five week summer terms; classes meet five days a week. Students whose cumulative grade average is B or better may register for as many as seven semester hours for each term. Students whose cumulative grade point average is lower, may take a maximum of six semester hours per summer term. Some classes will be of only three weeks duration.

The work offered in the summer is the same as that offered in the winter semesters. Students may take summer work to accelerate their program or complete college requirements. The requirements for admission are the same as the regular year.

Foreign Study in the Summer

Union College is a member of the Association of Colleges and Universities for International Intercultural Studies, Inc., which conducts centers at the University of Graz, Austria; in Africa; and in Hong Kong.

The emphasis of the Graz Center is on Eastern European studies. The basic cost of the 1972 Graz Center seven-week program is $625, plus air fare from Washington, D.C., to Graz and return. Air travel through ACUIIS has been approximately $300. The only additional charges will be for meals, visas, and personal purchases.

Africa is an exciting area whose importance in world affairs for the present and future cannot be over-estimated. This project will introduce students to some of the important forces and people that are shaping the future of rapidly developing West Africa. Lectures, travel, and study will be conducted in Ghana, Togo, Dahomey, and Nigeria. The comprehensive fee for the African Seminar is $1,250 per person. Additional charges will be for visas, immunizations, and other personal expenses.

Hong Kong is ideally situated for the study of the crucial importance of China and Japan. Perched on the doorstep of the People's Republic of China, and an international city where East and West intermingle every minute, it offers students an unmatched opportunity to be involved in the realities of East-West confrontation. The basic fee will be $875, plus round-trip travel transportation.

MACCI

Union College is a member of the Mid Appalachia College Council, Inc., a consortium of twelve colleges. This consortium performs many functions, but there are two of special academic significance which provide unusual opportunities for Union College students.

1. In the spring of 1968 the first of a series of special honors seminars was conducted at the Oak Ridge (Tenn.) Institute of Nuclear Studies for selected MACCI majors in biology, chemistry, and physics. These students, under the direction of the Oak Ridge Institute's professional staff, conducted experiments with specialized equipment in the realm of nuclear studies. Arrangements are planned that will provide summer employment at the Institute as research assistants for qualified students of the twelve Council colleges.

2. MACCI owns and operates a Biological Field Center on Norris Lake near LaFollette, Tennessee. Academic study at the Center is carried out during the summer terms, and correlated with courses in the biology department at Union College.
   Nearby mountains and many historic places are easily accessible for excursions and picnics. An organized recreational program on the campus, with swimming pool and tennis courts, is available to students.

3. Union College students have access to a special MACCI Program, MAAP. This special underachiever program is sponsored by twelve MACCI colleges and the United States Office of Education, and is designed to aid the underachieving college student. This is an eight-week comprehensive summer program to assist the underachieving college students to develop refinement of the skills and better understanding of motivational problems.

Washington Semester

Under an agreement with the American University in Washington, D.C., Union College participates in the Washington Semester Program. Students selected to study under this program spend the spring semester of their junior or senior year in Washington and are enrolled at the American University. This program affords students opportunity to continue their college education while observing the operation of government and international agencies in the nation's capital. Detailed information on the program may be obtained from the Dean of the Faculty or the Head of the Department of History and Political Science. See page 47 for special Robsion Political Science Scholarship.

Appalachian Semester

Union College operates an Appalachian Semester, a unique approach to the understanding of the Appalachian region. Second semester sophomores and junior and senior students from Union and many other colleges and universities are eligible for participation in this program. It is an in-depth study of the social and economic structure of Appalachia with field placement or independent, sociological research for students following a five-week orientation period. The Appalachian Semester carries fifteen to seventeen semester hours credit in sociology or social work.

Placement Service

The College maintains a placement service for its graduates and other students who terminate their college training with the idea of seeking employment. Superintendents and boards of education as well as other employers seeking college trained persons to fill positions are invited to visit the College and interview applicants in whom they are interested. All inquiries from those employers who cannot or prefer not to come to the campus will receive prompt and courteous attention. The Placement Service is prepared to give full information about any of its applicants.

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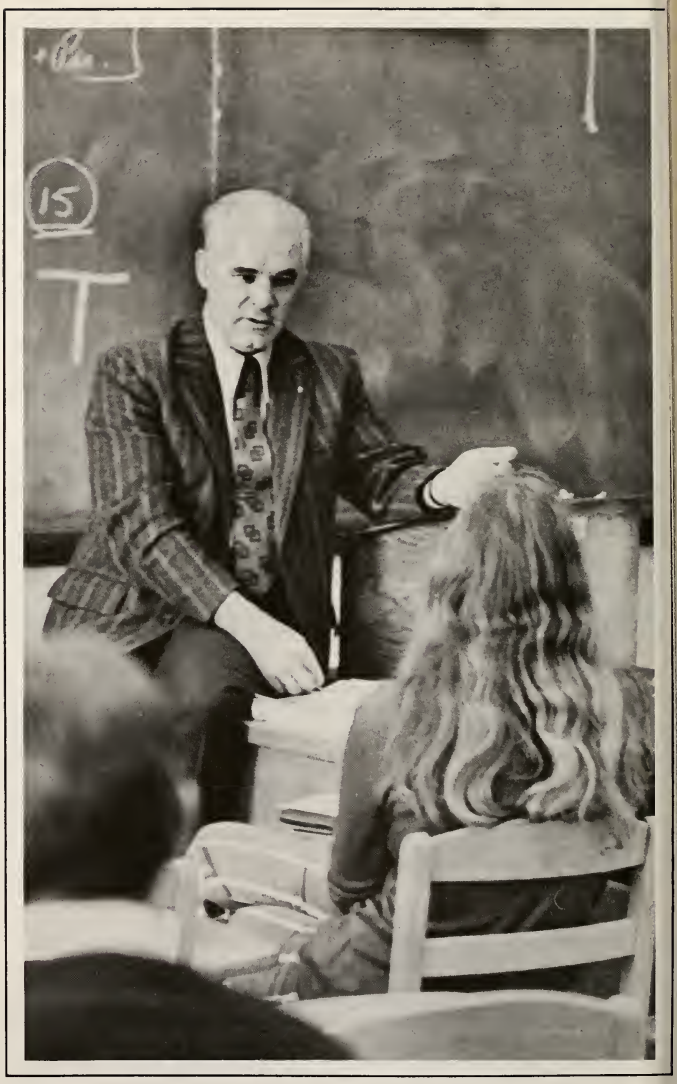
UNION COLLEGE
BARBOURVILLE, KENTUCKY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Student Life

RELIGIOUS LIFE

Union College is concerned for the religious life of its students. Worship services and other programs dealing with topics related to religion are held in the chapel. In addition, the Willson-Gross lectures and Faith and Life Week are held to give a special emphasis to Christian understanding and growth. During these weeks, outstanding speakers are brought to the Campus to discuss important issues confronting the Christian in today's world.

Apart from the campus religious program, each student is expected to worship regularly in the church of his choice. The United Methodist, Baptist, Christian, and Roman Catholic Churches are represented in Barbourville. Active organizations of the Methodist Student Movement, Baptist Student Union, Disciples Student Fellowship, Canterbury Club, and Newman Club are found in the local churches. The college endeavors to cooperate fully with these organizations and actively encourges student participation in their programs.

SOCIAL LIFE

Students are encouraged to accept every legitimate opportunity to engage in social functions. The faculty emphasizes the value growing out of well-directed social activities. Student organizations, the faculty and local churches make desirable contributions to the promotion of social life. The Director of Student Activities is responsible for the initiation and direction of a comprehensive program of student social and recreational activities. All social functions are chaperoned and subject to rules and regulations of the college. Chaperones are approved by the Director of Student Activities.

Concerts of exceptional merit are given throughout the school year by students in the School of Music and by the members of the music faculty, who are all performing artists.

Union College brings to the campus outstanding artists, performers, lecturers and entertainers. Their programs are planned by a Cultural Life Committee and are given during assembly hours and evening performances.

STUDENT ORGANIZATIONS

Students have the opportunity of participating in and developing leadership through a number of campus organizations. Some of these are departmental, some are limited to honor students in their fields, many are open to all interested students. Each has a faculty sponsor and some include faculty in their membership.

Alpha Delta—Mathematics Club.

Alpha Phi Omega—Omicron Epsilon Chapter (Service Organization).

Association of Women Students.

Beta Chi Alpha—Service and Social.

Black Student Movement.

Bridge Club—Recreational.

Circle K. Club—Sponsored by Kiwanis, Service and Social.

College Band—A concert organization, open to all interested persons.

College Choir—Membership by audition.

College Orchestra—A Symphonic organization of moderate size, open to all interested persons.

Cosmopolitan Club—Organization of Foreign Students.

Crusade For Christ—Religious.

CWENS—National Honor Society for Sophomore Women (formerly Beta Sigma).

Debate Squad.

Delta Delta Upsilon—Service and Social.

Gamma Beta Phi—National honor society, based on scholarship, service and character.

Girls Service Sorority—Service and Social.

Home Economics Club.

Iota Mu Gamma—Service and Social.

Iota Sigma Nu—Honorary scholastic fraternity.

Lakeside Dormitory Council.

Maze—Student Coffee House

The Milesians—for the discussion of philosophical questions. Faculty and students.

Mu Omega Beta—Service and Social.

Oxford Club—Students planning Church vocations.

Phi-Mu-Alpha-Sinfonia Fraternity-Music—Faculty and students.

Pi Epsilon Alpha—Majors and Minors in area of Health and Physical ducation.

Pi Upsilon Beta—Service and Social.

Playlikers.

P. H. T.—Wives of students.

Pom Pom Squad—Promote school spirit.

Radio Club.

Save Our Kentucky—Environmental Service.

Stevenson Hall Dormitory Councils.

Student Center Board.

Student National Educational Association. The John Owen Gross Chapter.

Student Senate.

"U" Club—Varsity Lettermen.

"U" Pep Club.

General Information

ATHLETICS

Union College is a member of the Kentucky Intercollegiate Athletic Conference and of the National Association of Intercollegiate Athletics. The college promotes athletics for physical development and as a vital part of the program of extra-curricular activities. The program emphasizes the protection of the best interests of the student athlete. Union teams are noted for "clean" sport and competitive spirit. Sport for fun and character building is fundamental. In intercollegiate competition the college is represented by varsity teams in basketball, track, swimming, tennis, golf, and cross country.

Union College sponsors intramural activities in touch football, basketball, bowling, free-throwing, horseshoes, badminton, softball, tennis, volleyball, speedball, and field hockey to have a "sports for all" program. The intramural organization is in general made up of men's and women's independent teams. The program includes both team and individual sports. No college credit is given for intramurals but it is urged that everyone take part.

PUBLICATIONS

Union College Bulletin.—An official quarterly bulletin, the January issue of which is the catalog number. This bulletin is sent free on request.

Parents' Quarterly.

Orange and Black—A bi-weekly newspaper published by the student body.

Union College Alumnus.—A quarterly bulletin published by the Alumni Office.

Stespean.—The yearbook, published annually by the students of the college under senior editorship.

THE LIBRARY

The Abigail E. Weeks Memorial Library houses a collection of approximately 60,000 volumes. More than 350 periodicals are regularly received, along with indexing services to facilitate their use. It is also a selective depository for U.S. government publications. The stacks are open for use by all students. Regulations governing the use of library materials are available in the library and freshmen students are given instruction in the use of the facilities. A special collection of more than 300 volumes of new books on environmental concerns provides resource material for environmental courses at the main campus and at the Environmental Education Center. Included also is a special Lincoln-Civil War collection containing 500 volumes, extensive files of clippings, and some artifacts.

HEALTH SERVICE

Union College retains two physicians, a full-time registered nurse, and a part-time registered nurse on call at all hours, and maintains free infirmary service for brief illnesses. Since the College does not have facilities for taking care of protracted illness arrangements for hospitalization must be made by the student or his parents. When a physician is needed, the patient may request the college nurse to call one, whose fee is to be paid by the student. Such bills, however, may be handled at the college business office if emergency requires such action. In case of emergency the college reserves the right to employ a physician or to have a student hospitalized without consent of the parents.

During the calendar year, all full-time undergraduate students may secure coverage of an accident and sickness hospitalization plan which is arranged through Mutual of Omaha. All claims under this student insurance plan are placed by the student and the attending physician.

STUDENT CONDUCT

Each student is expected to conduct himself at all times according to the rules of good society. This obligation includes compliance with Federal, State and local laws and adherence to college regulations. As members of a free society, students are always free to peacefully and lawfully petition for amendment or modification of the various laws as well as the college regulations. However, the rights of the student body as a whole and the college as an institution of higher education exceed the rights of any individual student or any group of students. Accordingly, not in an attempt to stifle dissent, but rather to perpetuate an environment where the student may peacefully pursue his studies, actions which are disruptive to the normal functions and operations of the college will not be tolerated. Students who are careless in conduct, wasteful of opportunity or unmindful of the rights of others, may be asked to withdraw from the college.

The college has specific regulations with regard to the use of alcoholic beverages, illegal drugs, possession of firearms on campus, and participation in any form of gambling.

Union College, as a United Methodist-related institution, supports the Church's stand on the use of alcoholic beverages. The following alcoholic beverage regulation is enforced:

No student shall possess or use alcoholic beverages when on college property or in college-approved facilities off campus, or when away from the campus representing the college in any way, e.g., a participant in or spectator at a college athletic event or other college function. Any student violating this regulation may be suspended or expelled.

The sale, possession, or use of stimulant, depressant, narcotic, hallucinogenic or other drugs or substances in violation of the Federal, State, or local laws is prohibited. Any student who illegally sells, possesses or uses such drugs will be subject to criminal prosecution by the appropriate law enforcement agencies and also will be subject to disciplinary action by the college. It is the announced policy of Union College to cooperate fully with the various law enforcement officials in the enforcement of the drug laws as with all other laws. A student's lawful use and possession of certain drugs pursuant to a valid prescription from a qualified medical practitioner such as a physician, dentist, or optometrist is, of course, permitted. The college Health Services should be consulted with regard to the use of stimulants which are not necessarily illegal drugs since protracted use of these substances may be harmful.

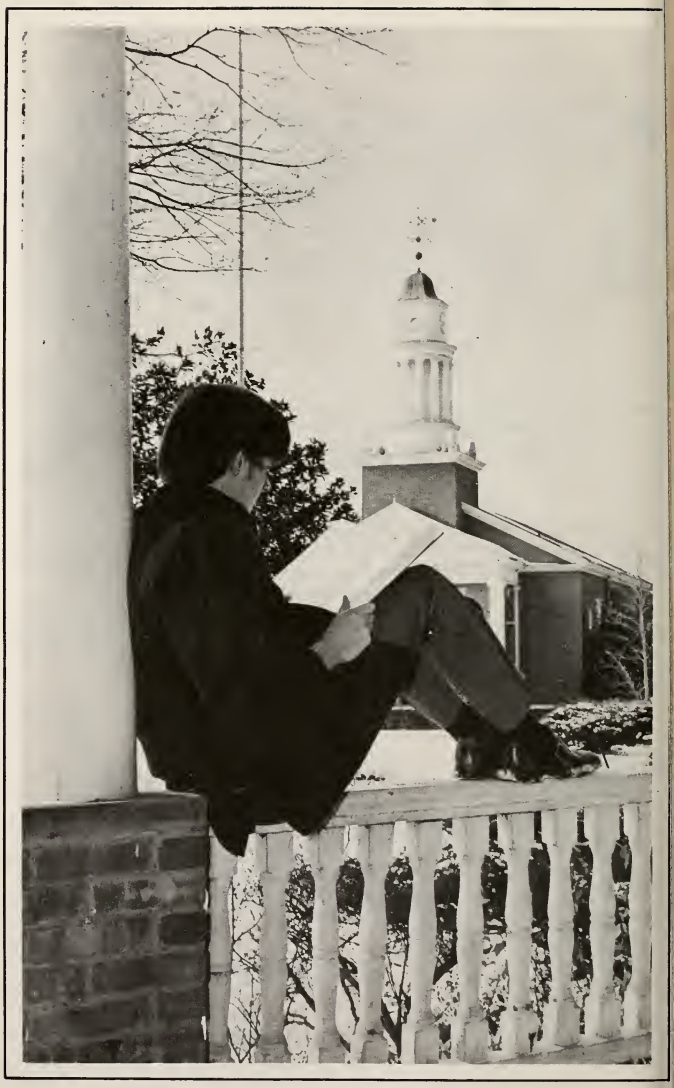
Firearms of any kind are forbidden in the residence halls or on the campus. All weapons must be registered and stored by a resident fellow. Students may be expelled for failing to register firearms.

Gambling in any form is strictly forbidden.

Union College expects good housekeeping from all on-campus resident students. Persons who persist in lack of good housekeeping will be asked to withdraw from residence on the campus. The college reserves the right to enter, inspect, and search the rooms of students at any time.

AUTOMOBILES

At the time of registration for classes all students who possess automobiles must complete an automobile registration card. Students who wish to park on campus must pay a $2.00 parking fee and affix a Union College permit. In addition, all students who drive cars or possess cars must furnish proof at the time of class registration that their automobiles are covered by adequate liability insurance from a legal underwriting agency. The term "adequate liability" shall be defined by Union College.



Admission

Application for Admission — Undergraduate

Each applicant for admission to Union College must present to the Committee on Admission satisfactory evidence of his previous academic training and of good character. He should:

1. Write to the Director of Admissions, Union College, Barbourville, Kentucky 40906, for an Application for Admission form.

2. Return his application to the Director of Admissions along with a $15.00 non-refundable admission fee. A refundable $40.00 room reservation deposit may also be included. Upon receiving the Application for Admission, the Admissions Office will mail the applicant a Health Certificate and two reference forms which should be completed and returned at the earliest possible convenience.

3. Have an official transcript of all high school and previous college work mailed directly from these schools to the Office of Admissions. Only those transcripts mailed directly from the school previously attended are considered official.

4. The child of a disabled or deceased veteran, under Public Law 864, should file an application for Program of Education and Training with the Veterans Administration which will issue a Certificate of Eligibility to attend Union College.

The Committee on Admissions will act immediately upon the receipt of all credentials and deposits. Each applicant will be notified in writing promptly thereafter.

Admission Requirements

Union College admits qualified students without regard to race, creed or color.

Applicants who are accepted will be classified as freshmen, as students with advanced standing, as special students, or as graduate students, based upon previous records on file at Union College:

Sophomore—completed 24 semester hours

Junior—completed 56 semester hours

Senior—completed 94 semester hours with at least a "C" standing.

Special—An adult, high school work incomplete, not working toward a degree. A student, with a baccalaureate degree, registered for under graduate credit. A person whose situation is somewhat unique and warrants special consideration.

Graduate—must possess a baccalaureate degree

Admission to the Freshman Class—Each applicant should submit a transcript which shows that he has graduated with sixteen units from an accredited high school with a "C" average, ranks in the upper two-thirds of his graduating class, and has either a composite ACT score of 16, or SAT score of 800. Ten of the units earned must be in academic subjects: three units in English, two units in mathematics, two in social studies, and two in science. Foreign language is recommended. Students failing to meet these standards may be admitted if the Committee on Admissions thinks other factors warrant special consideration. The student who fails to meet these standards, but who is admitted because factors warrant special consideration, may be admitted on probation.

An applicant who has graduated from a non-accredited high school must establish his ability to pursue a college program before he can be recognized as a candidate for a degree. This may be done by completing at least twenty-four semester hours of residence study with not less than a "C" average.

An applicant, not less than 21 years of age, may be admitted on a high school equivalency certificate, based on the General Education Development tests, provided the scores earned are equal to or above the minimum recommended for college entrance by the American Council on Education.

There is open admissions for all veterans and all persons twenty-one years of age and over, who have not attended another institution of higher education, but who have been graduated from an accredited high school.

Freshman Orientation and Registration.—Each member of the freshman class must be present at the time scheduled for Freshman Orientation. A program centered around problems peculiar to beginning students will be conducted by the faculty and a group of advanced students. The faculty of the College will be present to aid students in registering and to offer advice in choosing courses.

Admission to Advanced Standing and Transfer Students—Applicants who desire admission with advanced standing must present credits from an ac-

credited community college, junior college, senior college, or university. The transcript of credit must show that the applicant has been honorably dismissed, that the entrance requirements of Union College have been met, and that he has a "C" average. Students failing to attain a "C" average may be considered for admission on probation providing there is evidence that he can attain a 2.0 cumulative grade point average in a reasonable length of time. All credits earned from an accredited community college, junior college, senior college or university can be transferred to Union College. Sixty-seven semester hours is the maximum amount of junior college or community college credit which may be counted toward a degree.

Advanced Placement.—Students at Union College who have had superior preparation in certain curricular areas have regularly been placed in advanced course sections. In certain cases credit will be given by an examination administered by the Head of the Department. The College will also grant academic credit to those incoming freshmen who have successfully participated in the Advanced Placement Program of the College Entrance Examination Board. Interested students should consult the publication "Advanced Placement Program" of the College Board Advanced Placement Examinations, Box 592, Princeton, N.J., and their High School Guidance Counselors. Further information on the program may be obtained from the Registrar or the Dean of the Faculty.

High School Junior Program.—Superior high school students, recommended by their Principals, are permitted to take certain college freshmen courses in the summer sessions between their junior and senior years in high school and between their graduation and the opening of the regular fall semester. Credit earned in these courses will be recorded after the student has been regularly admitted to college following his graduation from high school and after he has completed twenty-four semester hours at Union with a "C" averge.

Veterans Affairs.—Credit for educational experiences in the Armed Forces is granted, based on recommendations of the American Council of Education. A maximum of 60 semester hours will be granted, on a combined basis, from the College Level Examination Program (CLEP) tests, USAFI approved courses, correspondence and extension courses. Union College will accept up to nine semester hours of credit from Service Schools, and grant three semester hours of Health and Physical Education credit for military service.

War Orphans Education, P.L. 634. Application should be made at the nearest Veterans Administration Office, prior to registration for college.

Admission to the Graduate Program.—The applicant must file an application for admission with the Dean of the Graduate School, Union College, Barbourville. Two transcripts of all college work are required. One transcript on form supplied by the college, must accompany the application. One transcript should be mailed to the Office of the Registrar. There is a $15.00 Application for Admission fee, which is refunded only when admission is denied.

Admission as Auditors.—Students may audit some classes, with the permission of the instructor. They must register as if for credit. Students new to Union College pay the regular $15.00 admission. There is also an audit fee.

Physical Examination.—Union College attempts to give aid to all students in matters of health. A thorough examination by a regular physician is required as a part of the entrance procedure of each student. Smallpox, tetanus, and typhoid vaccinations are required. During the course of the college year, Tuberculin tests will be given, unless the student can submit proof of having received this test before coming to college.

Physical Examination report forms may be obtained from the Office of College Relations or from the college nurse, and the examination should be made by the applicant's family physician. If a completely filled out medical and dental examination report is not filed at registration, the student is required to have the examinations made by local physicians, at his own expense, before registration is completed.

Room and Board.—All students 21 years or older, juniors and seniors (according to the Registrar's Office), veterans, and married students, can live off-campus if they so desire. *Juniors and seniors under 21 must have parental permission.* An application must be made for a room with reservation deposit of $40.00. This deposit should be filed with the application for admission. No room reserved for a student will be held unoccupied beyond the first day of registration unless there is a definite explanation and a request to occupy a stated later date.

Room Reservation Deposits.—The $40 room deposit is refundable up to one year after the last date the student is enrolled at Union College. Should a student pay room deposit, and decide not to enroll at Union College, he will be eligible for a refund up to one year from the date his deposit was received. After the refund period expires, the student forfeits his deposit to the college. A student must submit a written request to the Office of Student Affairs for the refund. Refund of room deposit is conditional upon the depositor leaving the dormitory rooms and equipment undamaged. All readmission students are assigned housing according to their new date of admittance. The readmission acceptance date becomes their room deposit date.

Room keys that are not turned in to the Office of Student Affairs at the end of the term or school year will be charged to breakage at the rate of $1.00 a key. The same rate will be charged to any student for whom it is necessary to replace keys.

Linen and towels will be provided each student living in the college dormitories. The College does not provide blankets, rugs, or curtains. Students should bring study lamps or may purchase them through the College Bookstore. Light bulbs for these should not be in excess of 75 watts.

All students who room on the campus are required to board in the college dining hall unless they have permission to do otherwise, from the Dean of Students.

Liability.—The College will not be responsible for loss of personal property or bodily injury resulting from fire or other causes.

College Expenses

The academic year of nine months is divided into two semesters. The rates quoted below are for one semester. The cost of a regular session of nine months can be found by multiplying a semester's expenses by two. All checks should be made payable to Union College.

Undergraduate Expenses:	
±Tuition (10 to 17 semester hours)	$ 815.00
Room	145.00
Board (19-meal week)	277.00
±Total for Boarding Student	1237.00
±Non-Boarding Student	815.00
Part-time tuition for all registration under ten or above seventeen semester hours, per semester hour	30.00
Graduate Expenses:	
Graduate Tuition, per semester hour	35.00
Activity ID card	15.00
Summer Session Expenses:	
Tuition, Undergraduate, per semester hour	30.00
Graduate, per semester hour	35.00
Room, each 5-week term	40.00
Board—full week, each 5-week term (21-meal week)	85.00
—short week (Monday breakfast through Friday lunch) each term (14-meal week)	65.00

The charges for individual meals in the Dining Hall are as follows: Breakfast, $.85; Lunch, $1.00; Dinner, $1.20; Sunday noon, $1.45.

Other Expenses

Admission fee: Undergraduate	$ 15.00
Graduate	15.00
Audit fee, per semester hour	10.00
Change in schedule fee	2.00
College Court Rental, per month (all utilities furnished)	65.00
Examination: late examination fee	1.00
late final examination fee	5.00
credit by examination, (per course)	25.00
Graduate Activity Fee (For all graduates taking 12 hours or more)	15.00
Graduation fee for Bachelor's degree	25.00
Graduation fee for Master's degree	30.00
Graduation in absentia fee	10.00
Late registration fee	10.00
Music: Preparatory Department: Piano, Strings, Wind Instruments (one half-hour lesson, weekly) per semester	25.00
Music lessons: part-time and special students, per semester	25.00
Transcript—after first copy (one week's notice required)	1.00
Horsemanship Course Fee (per semester)	35.00

Terms of Payment

Full semester's charges, room, board, tuition, and fees, must be paid no later than registration date. Should the student have an approved loan, scholarship, workship, workstudy grant, or other form of financial assistance, such amount will be deducted from the total charges with the then net amount payable at the time of registration. The Office of Business Affairs can make no exception to this regulation.

Refund Information

Since faculty engagements and other commitments are made by the college for the entire year in advance, the following refund schedule has been established in order that the College and the Student may share the loss equitably when it is necessary for a student to withdraw or to make a change in his program.

1. There will be no refund given for room rent. This rule applies to all withdrawals including students dismissed from college.
2. Board will be refunded in full amount unused to the date of withdrawal. A full week is charged for any fraction of a week.
3. Tuition will be refunded on the following basis:
   REGULAR TERM—Twenty percent of the total for tuition will be charged fo

Vacation periods are not included in the quotation. Dormitories are closed during intermissions and Christmas holidays. The college reserves the right to entertain delegates to conventions and other related groups in the residence halls during vacation periods. Students will be notified in advance of such contemplated occasions and assurance given regarding the safeguarding of their personal property during such occupancy. Due to uncertainties in the price of food the College charge for Board may, if necessary, be changed at any time without notice.

† $10.00 of this amount each semester, is designated for Student Center construction, as voted by students December 10, 1962. $1.00 is collected for Student Senate dues and $1.00 is collected for class dues.

each of the first five weeks. No refunds will be made on tuition after the fifth week. Any part of a week will be treated as a full week. Refund is based on tuition charges, less $10 student center allocation, $1 class dues, and $1 student senate fee.

SUMMER TERM—Fifty percent of total tuition will be charged the first week and fifty percent the second week. No refunds following the second week. Any part of a week will be treated as a full week.

4. Any registrant who has completed registration and who has failed to attend a single class may have his account credited for the money paid, this to apply for use on future registration within a twelve-month period.
5. *Room Reservation Deposits*—This deposit will be refunded if request is made in writing not later than August 1 for the Fall Semester or thirty days before the opening of any other semester for which the contract is first effective. Students, once enrolled, must submit a written request with the Office of Student Affairs at least 30 days before the end of the term for cancellation of the contract. Graduating seniors must file their request for room deposit refunds before they leave the campus. If the above guidelines are not followed, the deposit will be forfeited by the student.
6. Caution deposit will be refunded upon receipt of written authorization by the Dean of Students or Dean of Women indicating the depositor is no longer enrolled as a student at Union College and that he has left dormitory rooms and equipment undamaged.
7. No fees are returnable, including $15 admissions fee.

A student is considered to be enrolled until he formally notifies the Office of the Registrar of his withdrawal and all refunds will be based on the date of notification.

STUDENT AID

Standards for Receiving Financial Aid

The College maintains an extensive program providing opportunities for financial assistance to promising students who need help in meeting their expenses, or who have attained particular merit in scholarship or other accomplishments. Only those students whose scholarship and character indicate leadership ability and promise of future usefulness will be approved for aid.

Students receiving financial assistance may be deprived of their aid at any time if they are negligent in the performance of their duties, careless in their conduct, or unwilling to cooperate fully with the policy of the college.

As a general policy no student will be eligible for more than one scholarship, nor will any student be eligible for aid from a combination of scholarship, workship, and loan-grant sources in excess of the full amount of his tuition, room and board. Scholarships and/or grants in aid will not be applied to student accounts until the close of the current semester for which the student is enrolled. Therefore should a student who is the recipient of a scholarship withdraw prior to the close of the semester, he forfeits the right to all scholarship benefits.

Union College participates in the College Scholarship Service (CSS of the College Entrance Examination Board. Participants in CSS subscrib to the principle that the amount of financial aid granted a student should b based upon financial need. The CSS assists colleges and universities and othe agencies in determining the student's need for financial assistance. Enterin students seeking financial assistance are required to submit a copy of th Parents' Confidential Statement (PCS) form to the College Scholarship Serv ice, designating Union College of Kentucky, College Code 1825, as one of th recipients by May 15. The PSC form may be obtained from a secondary scho or the College Scholarship Service, P.O. Box 176, Princeton, New Jerse 08540, P.O. Box 1025, Berkeley, California 94704, or P.O. Box 881, Evanston Illinois 60204.

PROCEDURE OF APPLICATIONS FOR FINANCIAL AID

Inquiries regarding scholarships, loans, and financial aid should be ad dressed to the Director of Student Aid, Union College, Barbourville, Kentuck 40906.

1. No student may be approved for financial aid until official admissio to Union College has been granted.
2. An application for financial aid must be submitted to the Director o Student Aid. This form may be obtained by writing the Director of Ad missions.
3. Parents or guardians of applicants must complete the Parents' Con fidential Statement of the College Scholarship Service, Box 176 Princeton, New Jersey 08540, and return it, following the printed in structions on the form, to Princeton, Evanston, or Berkeley, dependin on your place of residence. Blank forms are available in most hig school guidance offices or from the College Scholarship Service.
4. Students making application for a scholarship or other financial ai shall submit a transcript to the Office of Student Affairs, as well as t the Registrar.

SCHOLARSHIPS

UNION COLLEGE HONOR SCHOLARSHIPS.—Honor Scholarships in a amount up to $700.00 for the academic year are available to select graduate of accredited high schools enrolling in college for the first time. To qualif students must rank in the top 3% of their graduating class. Evidence of hig school rank must accompany the application for financial aid certified by th high school attended. All test scores should also accompany the applicatio for financial assistance.

Honor Scholarship renewals will be based upon a scale of cumulativ grade point averages as follows:

Cumulative Grade Point Average	*Amount of Award*
3.0.....3.49	$500.00
3.5.....4.0	$700.00

Applications from High School Seniors should be received by the Director of Financial Aid, Union College, by April 15, to be assured of consideration by the Scholarship Committee.

Alumni Scholarships.—The Alumni Association of Union College awards two scholarships annually on the basis of character, need, and evidence of future usefulness. The first scholarship is for $400, and the second for $200. Recipients are selected by the Alumni Scholarship Committee.

Appalachian Regional Scholarship—Two friends of Union College have established the Appalachian Regional Scholarship to be awarded to an Appalachian student on the basis of financial need and promise of future usefulfulness to the region. The stipend is $150 each semester.

Bank of Harlan Scholarships.—A number of scholarships are given annually to qualified students from Harlan County by the Bank of Harlan. The stipends are determined according to financial need and academic excellence.

Barbourville Kiwanis Scholarship.—The Kiwanis Club of Barbourville, Kentucky, has supplemented an educational fund originated by Mr. C. F. Heidrick and established a scholarship fund at Union College for promising students from Knox County, Kentucky.

Barbourville United Methodist Church Music Scholarships.—Annually The First United Methodist Church of Barbourville, Kentucky, awards four scholarships to music students amounting to $200 for a total of $800. Consideration is given for participation in the music program of the local church.

John A. and Hannah P. Black Memorial Scholarships for Christian Workers.—Dr. and Mrs. Henry C. Black of Johnson City, Tennessee, have endowed a scholarship that provides an annual stipend of $500.00 for a promising student who plans a life of service in The United Methodist Church.

Dr. and Mrs. James F. Blair Scholarship.—Dr. and Mrs. James F. Blair of Barbourville, Kentucky, have endowed a $250.00 scholarship for students from Knox County, Kentucky. It is awarded annually to a student in the sophomore, junior or senior year on the basis of need, scholarship, character, and promise of future usefulness.

Kathy Brick Memorial Scholarship.—Mr. and Mrs. Theodore F. Brick of Dayton, Ohio, provide annually a scholarship of $100 for a student who participates in the competitive swimming program of the College.

W. S. and Bess Carpenter Scholarship.—Mr. and Mrs. W. S. Carpenter of London, Kentucky, provide annually a scholarship for a worthy freshman, preferably from southeastern Kentucky. The stipend varies with need, but is in the $500-$700 range.

Alfred I. DuPont Scholarship Fund—Mrs. Alfred I. DuPont of Wilmington, Delaware, established a scholarship endowment, the income from which is used annually to provide one or more scholarships to needy students having high

academic potential. Preference in the awarding of these scholarships is given to students from the Appalachian counties of Kentucky and surrounding mid-Appalachian region in adjoining states.

Dr. J. Edward Faulkner Memorial Scholarship.—Mrs. J. Edward Faulkner of Barbourville, Kentucky, provides an annual scholarship in memory of her late husband. The scholarship is awarded to a junior or senior who plans c life of service in the healing arts, with preference being given to a pre-dental student.

The Ernest Goodwin Green Memorial Scholarship—Mrs. Ernest Green, Grand Rapids, Michigan, has established a memorial scholarship to be awarded annually to a drama major considered to be the most capable of contributing toward the success of the department. The scholarship is given in memory of her late husband.

John O. and Harriet B. Gross Memorial Scholarship—Family and friends of Dr. and Mrs. John Owen Gross have endowed a scholarship in their memory. Dr. Gross was president of Union College during the years 1929-1938. The scholarship is awarded annually to a senior student on the basis of scholarship and leadership, with preference being given to students from northern Kentucky. The stipend and requirements are the same as for "United Methodist Scholarships."

The Irene Hughes Scholarship—Miss Irene Hughes (AB '37; MA '63), Barbourville, Kentucky, provides an annual scholarship of $200 for a freshman girl, a graduate of Knox Central High School, who has been a member of the High School Honors English Class and who exemplifies Christian principles o conduct. The scholarship will be awarded by the Alumni Scholarship Committee

The Inter-County Rural Electric Cooperative of Danville, Ky., has estab lished a $100.00 annual scholarship to assist a Union College student whose parents are members of Inter-County RECC in the counties they serve. Thi scholarship is awarded on the basis of financial need, character and academi promise. Preference will be given to freshmen.

Junior College Scholarship.—Union College has a limited number o scholarships available to needy graduates of Junior or Community Colleges The scholarships carry a stipend up to $500.00 per year depending upon need To be eligible for this scholarship, the applicant must be a graduate of a Junio or Community College having earned the A.A. Degree with a cumulativ grade point average of at least 2.5 on a 4 point system. These scholarship are renewable in the senior year providing the student maintains an averag of 2.5 or better at Union College.

Junior Study Club Scholarship.—The Junior Study Club of Barbourville Kentucky, provides a $200 scholarship at Union College to aid worthy student from Knox County, Kentucky. The scholarship is awarded to a girl wh graduated from a high school in Knox County who is a Junior or Senior c Union College. The scholarship recipients are chosen on the basis of neec scholarship, character and promise of future usefulness.

The Jeffrey W. Kronk Memorial Scholarship.—Mr. and Mrs. Walter F. Kronk of Huntsburg, Ohio, have endowed a scholarship for a needy, qualified student from Geauga, Lake, or Ashtabula counties in Ohio, or from the Appalachian counties of Southeastern Kentucky. The scholarship is in memory of their son, Jeffrey, who was enrolled at Union College from 1963 through 1967. Should there be no qualified students enrolled from these areas in any given year, the endowment income will be used to support the Lincoln-Civil War Collection at Union College.

W. B. Landrum Memorial Scholarship.—Mr. John W. Landrum of Harrodsburg, Kentucky, provides annually a scholarship of $250.00 for a promising United Methodist ministerial student in memory of his father. The student benefited by this scholarship must exhibit outstanding personal attitudes of religious sincerity, devotion, and earnestness in purpose. Demonstrated failure to exhibit these qualifications to a high degree will result in the forfeiture of the scholarship.

London Laundry Scholarship.—The London Laundry & Dry Cleaners, London, Kentucky, has established an annual $250.00 scholarship to assist a student graduating from a high school in Southeastern Kentucky during his freshman year at Union College. The scholarship is awarded on the basis of scholarship, character, and promise of future usefulness.

Dr. Paul Muncy Memorial Scholarship for Henderson Settlement and United Methodist Children's Home Students.—The Rev. I. S. Pineur of the Kentucky Annual Conference provides an annual scholarship of $50.00 for a needy student from Henderson Settlement, Frakes, Kentucky, or the United Methodist Children's Home, Versailles, Kentucky. This scholarship is given in memory of Dr. Paul Muncy, Union College Trustee and loyal United Methodist layman in the Kentucky Annual Conference.

National United Methodist Scholarships.—The Board of Education of the United Methodist Church makes available annually to several United Methodist students scholarships covering tuition and fees. The awards are made on the basis of character, need and scholastic ability. Only students having at least a "B" average are eligible.

Presser Foundation Music Scholarship.—Union College receives each year from the Presser Foundation, Philadelphia, Pennsylvania, a grant of $400.00 to be given by the College as a Music scholarship. Recipients of this scholarship are selected by the President of the College and the Head of the Music Department. The recipient must be majoring in Music and preference will be given to students preparing to become teachers of music.

E. O. Robinson Mountain Fund Scholarship.—The E. O. Robinson Mountain Fund has established an annual scholarship program to assist needy students who reside in the Appalachian Region of Eastern Kentucky. Students receiving these scholarships should give promise of being able to complete their academic work successfully. *They should be and remain unmarried while receiving assistance from this scholarship.* Qualified persons should apply to the Director of Student Aid.

Robsion Political Science Scholarship.—Honoring Senator John M. Robsion, Sr., and Congressman John M. Robsion, Jr., the Robsion Political Science Scholarship provides a stipend of $750 for the Union College student participating in the Washington Semester Program each year.

Sanders Honor Scholarships.—Colonel Harland Sanders of Shelbyville, Ky., provides annually a number of honor scholarships with the same stipend and on the same terms as the Union College honor scholarships. The Sanders Honor Scholarships are limited to students who do not use tobacco and alcoholic beverages.

Sims Scholarship Fund.—Reverend and Mrs. Harry C. Sims of West View, Kentucky, have established a scholarship fund at Union College to aid worthy students preparing for the United Methodist ministry. The income from the fund will be awarded as a scholarship to a student each year on the basis of need, scholarship, character and promise of future usefulness.

Hulbert Taft, Jr. Memorial Scholarship.—Mrs. Thomas C. Haydock, Sr. of Cincinnati, Ohio, has provided a scholarship endowment as a memorial to her late husband, Hulbert Taft, Jr. The income from the endowment will be used annually to provide one or more honor scholarships to needy students having high academic potential.

Union National Bank Scholarship—The Union National Bank of Barbourville, Kentucky, has established a $792.00 Scholarship at Union College to aid worthy students from Knox County, Kentucky. It is awarded to a student graduating from a high school in Knox County, for the freshman year at Union College, on the basis of need, scholarship, character, and promise of future usefulness.

The Harry C. Viall Memorial Scholarship—Mrs. Harry C. Viall of Barbourville, Kentucky, has endowed a memorial scholarship for a needy, qualified student with preference going to an individual from Knox County. The annual scholarship is given in memory of her late husband, Harry, who was a prominent local businessman.

O. H. Viall Memorial Scholarships.—Mrs. O. H. Viall and family of Barbourville, Kentucky, have established a memorial scholarship fund at Union College to aid worthy students. The number and size of the scholarships vary, being intended for emergency use by needy students.

William M. Wilson Memorial Scholarship.—Mrs. Eva Oldfield Wilson of Barbourville, Kentucky, has established a scholarship fund in memory of her late husband. The income from the fund will be used to provide an annual stipend of $200 for a promising student preparing to teach in the elementary or secondary schools.

The Andrew G. Yankey Scholarship Fund.—This is a $1,000 annual scholarship for a Bell County student with the first preference being a Henderson Settlement School graduate. Qualifications will include need, character, and academic promise. The providers of this fund are particularly interested in students who, upon graduation, plan to labor in the hills of Kentucky. This fund is established by the Reverend Glenn Tex Evans, former administrator of the Henderson Settlement School, in honor of Mr. Andrew G. Yankey, a native

Kentuckian, and is meant to be a symbol of Mr. Yankey's affection for and interest in the youth of Kentucky.

Other Scholarships.—Other scholarships are often available for students of exceptional academic ability and/or great financial need. Inquiries should be addressed to the Director of Student Aid.

Assistantships

Several Senior Assistantships are made available annually, one or more in each of the academic divisions. The assistantships are open to students of outstanding scholastic ability who exhibit great promise of future usefulness and who are considering graduate studies with a view of entering college teaching. The duties of the Senior Assistants include occasional classroom lectures, research, remedial work with beginning students, assisting in laboratories, etc. The Assistants are expected to spend a minimum of twelve hours per week on the work assigned. The awards are made by the Scholarship Committee upon recommendation from the Division Chairmen. Senior Assistants receive a stipend of $400.00 per year.

Graduate Assistantships

Assistantships carry a stipend of $700.00 each, plus a remission of graduate tuition and room.

Graduate Assistants are expected to devote their entire time to graduate studies and to assume such responsibilities as may be assigned by their department or major professor. The award is paid in nine equal monthly installments. The appointments are made for one year only but may be renewed if it can be shown that the study and research should be continued.

These assistantships are open to students who hold the Bachelor's Degree from a college or university of recognized standing. Forms for making application may be secured from the Office of the Director of Student Aid and application must be submitted no later than April 1.

Workships

The college seeks to employ as many students as possible in jobs on the campus. Such jobs consist of stenographic work in college offices, science laboratory assistance, service in the dining room and kitchen, in the library, student center, gymnasium, and on the campus grounds. Each workship student is under the supervision of a faculty member or other college employee who makes a monthly time report to the Office of Student Affairs where credit on an hourly basis is entered on the student's account. Students are paid the minimum wage. The Director of Student Aid can withdraw the workship at any time if student performance or attitude is unsatisfactory.

Work-Study Program

Undergraduate students who need financial assistance to attend college may apply for employment under the College Work-Study Program at Union College. Consideration is given to students whose parents' annual gross income is $7,500 or less. Students who work part-time while attending school and full-time during vacation periods may earn a large portion of the amount needed for college expenses. The federal minimum wage is paid to all enrollees.

Graduate students who have need and qualify according to parental income as set forth above, may be considered for the College Work-Study Program. Those assigned will receive more than the federal minimum wage.

Educational Opportunity Grants

The Educational Opportunity Grant Program provides grants of from $200 to $1,000 to students of exceptional financial need who are in academic good standing at Union College. Students coming from families in which the parents can contribute less than $600 per year toward the expenses of college can qualify as being of "exceptional financial need." This program, financed by the government, is an "opportunity" program and not a "scholarship" program, and therefore students are eligible if allowed to remain in the institution, if academic promise continues, if it is reasonable to expect graduation, if Federal funds continue to be available, and if financial need remains. Those interested may receive applications and further information through the Director of Student Aid.

Loan-Grants

Ministerial Loan-Grant.—Ministerial loan-grants amounting to $400.00 for the academic year are available to students studying for the ministry. To be eligible for this aid the student must have a license to preach, or enroll in the non-credit religion course, Conference Studies, which is designed to prepare candidates for the obtaining of the license to preach. Renewal of the loan-grant is dependent on the student's successfully passing this course and obtaining the license to preach before the beginning of the next academic year. Applicants qualified for the loan-grant must sign a note for the amount received each semester. These notes will be cancelled after the individual has entered into the full-time ministry. If the student changes his plans and enters another field or endeavor the notes become due and payable.

Loan-grants amounting to $700.00 for the academic year are available to United Methodist Local Preachers who agree to serve four years in the Kentucky or Louisville Annual Conference. These notes will be cancelled after the specified service has been fulfilled. Apply to the Director of Religious Life

Aid to Children of Ministers.—Special consideration for various kinds of financial aid is given to unmarried dependent children of United Methodist Ministers. The total amount of assistance will be based on financial need. Applications or questions of information should be submitted to the Director of Financial Aid.

College Employee Grants.—The spouse and unmarried dependent children of full-time employees of Union College may receive a full tuition grant at Union College. A tuition grant at other colleges participating in the Tuition Exchange Program is available to employees' unmarried dependent children.

Loans

United Methodist Men's Loan Fund.—The United Methodist Men's Clubs of the Kentucky and Louisville Conferences of the United Methodist Church provide loans to deserving men and women students of Union College. Applications are received by the Office of Student Affairs. New freshmen must have had a "B" average in high school. Loans may be received up to $400 per year.

United Methodist Student Loan Fund.—The Board of Education of The United Methodist Church makes available to worthy students at Union College the resources of The United Methodist Student Loan Fund. Apply to the Director of Student Aid at Union College.

National Defense Student Fund.—Union College is participating fully in the student loan program as established by the 85th Congress in the National Defense Education Act of 1958. Only students with above average records and real financial need should apply for these loans. Special consideration in the selection of loan recipients will be given to students with superior academic background who express a desire to teach in elementary or secondary schools, and to those whose academic background indicates a superior capacity or preparation in science, mathematics, or a modern foreign language. Detailed information may be obtained by writing to the Director of Student Aid, Union College.

United Student Aid Fund Loan.—Students with above average academic records and a financial need may obtain a United Student Aid Fund Loan up to $500.00 per semester. Further information may be secured from the Director of Student Aid.

Elizabeth L. Gates Loan Fund.—Mrs. Waldo Brown of Knoxville, Tennessee, has established a loan fund in memory of the mother of Mr. John B. Gates, a former student at Union College. The resources of the fund are available to senior male students preparing for the ministry.

Burton and Verda Hensley Student Loan Fund.—Mr. and Mrs. Burton F. Hensley have established a loan fund to aid students at Union College. The resources of the fund are available to worthy and needy unmarried students.

Rev. and Mrs. Erwin King Loan Fund.—Rev. and Mrs. Erwin King have established a loan fund to aid worthy ministerial students in their junior or senior years at Union College. To qualify for a loan the students must possess high qualities of character and scholarship.

Guy H. Williams Loan Fund.—Dr. Guy H. Williams of Cleveland, Ohio, has established a loan fund in memory of his wife, Anna Williams. The resources of the fund are available to worthy students who have spent two years at Union College and have a "C" average or better.

Book Loan Fund.—The Senior Class of 1957 established a loan fund with the hope that future classes would add to its capitalization. The resources of the fund are available to full-time students on a short-term loan basis for the purchase of required textbooks.

Knox County Chamber of Commerce Student Loan Fund.—Mr. William S. Murphy, former director of development at Union College and first vice president of the Knox County Chamber of Commerce, provided the initial gift to establish this fund. The continued support of the fund was accepted by the Knox County Chamber of Commerce as an expression of appreciation for the contribution of Union College to the educational, economic, social, and religious life of Knox County and vicinity. The Knox County Chamber of Commerce attempts to make annual contributions to this fund, and encourages local citizens to do likewise.

The Charles Henry and Glennora Rominger Krieger Student Loan Fund.—This loan fund, established by the late Glennora R. Krieger of Ft. Thomas, Kentucky, provides loans to worthy and needy students at Union College from the designated Appalachian counties of eastern Kentucky. The terms of the loan are the same as The United Methodist Student Loan Fund.

Special Payment Plan—The Insured Tuition Payment Plan of Boston, well known in the educational field, offers two convenient payment programs for parents who desire to budget the annual cost in monthly installments. Both programs include insurance protection which covers the balance of the cost of the entire educational program in the event of the death or disability of the insured parent. There is a prepayment program which begins before the first payment is due at the school and ends before graduation. Consequently, there is no interest charge. There is also an extended repayment plan. This program takes advantage of low cost loan facilities. It reduces the monthly payment and spreads the cost out over a longer period of time. The earlier the program is started, the smaller the payments and the longer the term of insurance protection. Information about these two programs is sent on request to the parents of incoming students.

Other Loan Funds.—Student loans are available from a number of funds not specifically designated for Union College students, but for which Union Co

lege students are eligible. Specific information may be obtained from the Director of Student Aid.

Endowments

The Russell M. Bennett Memorial Professor of Sociology Chair was given to Union College by Mrs. Helen Hunt Bennett in the amount of $75,000 for the endowment of this professorship in 1946. An additional $2,000 was given for the equipment of the Business Department.

Dr. Robert E. Drew Endowment Fund.—The Commission of Missions of the Hyde Park Community United Methodist Church, Cincinnati, has established an endowment fund in honor of the Rev. Dr. Robert E. Drew, former Associate Pastor of the church and an honorary alumnus of Union College. The income from this fund will be used for scholarship grants to foreign students.

Dr. Franklin Duncombe Memorial Fund.—Mrs. Helen Duncombe of Haverford, Pa., has established an endowment fund in memory of her late husband, an honorary alumnus of Union College. Income from this fund will be used to finance grants-in-aid under the college loan-grant program for students planning to enter the United Methodist ministry.

Anna E. and John William Harris Memorial Fund.—Dr. J. William Harris has established a lectureship fund containing the sum of $30,000 in memory of his sister, Anna E. Harris, and his father, John William Harris.

Charles and Leona Jennings Memorial Fund.—Dr. Charles M. Jennings of Marietta, Georgia, has established an endowment fund in memory of his parents, Charles and Leona Jennings, the income from which is to be used to provide an annual bonus to the head of the department of biology at Union College.

William Jones Endowment Fund.—Mr. William Jones of Barbourville, Kentucky, has established a fund, which may be augmented from time to time, the income from which is designated for use by the School of Music to purchase recordings and musical scores.

Jeffrey Kronk Memorial Endowment.—This endowment, established by the Senior Class of 1967, in memory of Jeffrey Kronk, a member of that class, will assist in purchasing of books for Union College's Lincoln Collection.

Francis Landrum Memorial Professor of Religion and Philosophy.—Mrs. Obed H. Wilson has established the Francis Landrum memorial professorship through a bequest at $50,000 in 1927.

Dorothy Lucas Memorial Fund.—An endowment fund has been established in memory of Miss Dorothy Lucas, Registrar of Union College for many years, and much beloved friend of students. The income from the fund is used to support various student aid activities of the college.

Melaine Jean Martin Trust Fund—Dr. and Mrs. O. J. Wilson of Bowling Green, Kentucky, have established a memorial fund in memory of their granddaughter. The income from the fund is used to purchase library books to support the work of the English Department.

Pearl Sinnett Meyer Memorial Fund.—The Rev. Dr. Jesse I. Meyer of Pikeville, Kentucky, has established an endowment fund in memory of his wife,

Mrs. Pearl Sinnett Meyer. The income from this fund is designated for the pur chase of books for the Union College library.

Emory Evan Peter Memorial Endowment.—The late Mrs. Laura P. Dicke of Louisville, Kentucky, has established an endowment fund in memory of he brother, Emory Evan Peter. The income from this fund will be used to hel finance the college student aid program.

Lewis Ogden Stiles Endowment Fund.—The late Mrs. Lewis Ogden Stile of Waco, Texas, established this fund to memorialize her husband, Lewis Ogde Stiles, and his first wife, Pearl Long Stiles, both faithful United Methodists c Irvington, Kentucky. The income from this fund will be used to finance grants in-aid under the college loan-grant program to United Methodist students plar ning to enter the ministry of the Kentucky or Louisville annual conference

Willson-Gross Lectures.—Dr. and Mrs. James M. Willson of Floydada Texas, have established a lectureship endowment in honor of Dr. and Mr John Owen Gross. The purpose of the lectures is to bring annually to th campus distinguished speakers to discuss vital issues confronting the Christia student.

Beverly P. and Mossie B. Wilson Trust Fund.—Dr. and Mrs. O. J. Wilso of Bowling Green, Kentucky, have established a memorial fund in memory c Dr. Wilson's mother and father. The first $100 income from the fund shall b used to support the annual "Beverly P. and Mossie B. Wilson Memorial Awar in English." Income in excess of $100 shall be used for a revolving loan fun for students majoring in English.

Colutha J. Taylor Wright Memorial Fund.—Mr. J. S. Wright of Whitle City, Kentucky, has established an endowment fund in memory of his wif Mrs. Colutha J. Taylor Wright. The initial sum was $1,000.

Awards

Alpha Psi Omega Award (National Dramatics Honor Fraternity); an Oscar to the male and an Oscar to the female who has contributed most towar drama at Union College, as selected by the members of the Fraternity.

Art Club to the Art Student Judged most outstanding during the year

The Bartlett Sociology Award in memory of Mrs. Ellen Savina Bartlett o Iowa Falls, Iowa, to the student showing the greatest excellence in the fiel of Sociology.

Senior Biology Award, by Dr. Theodore R. Davies, to the senior studen showing the highest academic excellence in the field of Biology.

Blackwell Memorial Award in Political Science, by Dr. Robert Lee Black well in memory of his mother, Mrs. Victoria Wolfe Blackwell, to the senio student majoring in history and/or political science showing the highest aca demic excellence in the field of political science.

Kathy Brick Memorial Award, by her parents, Mr. and Mrs. Theodore F. Brick, Dayton, Ohio, to the student showing the highest proficiency in competitive swimming.

The Burke Mathematics Award, in memory of Dr. A. R. Burke, of Binghamton, New York, to the student showing the greatest excellence in the field of Mathematics, by Mrs. A. R. Burke.

The Chemistry Department Awards in General Chemistry, Analytical Chemistry, Organic Chemistry, and Physical Chemistry. The award is given to the student who has completed the year course with the best all around average. Awards are furnished by the Chemistry Department Faculty.

The Daniel Drinkard Memorial Award, by students of Union College and friends, through the Alumni Association of Union College, to the runner-up for the Athlete of the year, the athlete who exemplifies the characteristics of desire, kindness, honesty, and personal integrity, as embodied in his personality and attitude. The award shall be presented each year at the Athletic Banquet and shall be in the form of a plaque kept in the trophy case in the Physical Education Building; a miniature plaque shall be given to the recipient of the award.

Eastern Kentucky Essay Award, by Dr. Kenneth H. Tuggle, Trustee of Union College, to the student writing the best essay on Eastern Kentucky history.

French Award, a book, to the graduating senior majoring in French with the highest cumulative standing in the field.

Freshman Composition Award, by Dr. and Mrs. Bjornstad, formerly of the faculty of Union College, to the student achieving highest writing excellence in freshman composition courses as determined by the English Department.

Gamma Beta Phi Award, a book, to the full-time student with the highest cumulative average in hours earned at Union College. In case of a tie, the award will go to the student with the greatest number of hours.

Dr. L. A. Geiss Award to the graduating senior majoring in Business with the highest cumulative standing in that field.

Mrs. L. A. Geiss Award to the student majoring in the Department of Home Economics achieving the highest academic standing in that field for the year.

German Award, a book, given by Mrs. W. J. Marigold of Toronto, Canada, in memory of the late W. J. Marigold, to the graduating senior majoring in German with the highest cumulative standing in that field.

Governor James D. Black Award, by Pitzer D. Black, to the senior student with the highest scholastic average for the year.

Hubert H. Hoeltje Memorial Award, a copy of a book by the late Hubert H. Hoeltje (Professor of American Literature at Union, 1961-1968) to the undergraduate student who, in the judgment of the Head of the Department of English, has done the most perceptive work, in class and in written reports, in that field during the current academic year.

Iota Sigma Nu to the freshman and the sophomore students with the highest scholastic average in their respective classes for the year.

Literature Award, by the Tuesday Club of Barbourville, Kentucky, to the senior student majoring in English who shows the greatest excellence in the field of literature.

Samuel A. Matthews Memorial Award, a book given by Robert D. Matthews to a pre-ministerial student.

Dr. Paul Muncy Memorial Award, by the Board of Trustees, to the senior premedical student with the highest cumulative academic standing.

The School of Music faculty to a student majoring in music for interest, initiative, cooperativeness, musical ability, academics, and service to the department.

Student National Education Association Award, given by the John Owen Gross chapter to the graduating senior showing the greatest excellence in the field of education.

H. H. Owens History Award, by Mrs. H. H. Owens, to the student showing the greatest excellence in the field of history.

President's Award by President Mahlon A. Miller to the senior student who has the highest cumulative record in grades earned at Union College.

The Physical Education Faculty Award, to the man and woman senior majors with the highest cumulative academic standing.

Sampson Political Science Award, by Governor Flem D. Sampson, to the junior student showing the highest academic excellence in the field of political science.

Katherine V. Sutphen Memorial Award, by the Alumni Association of Union College, to the music student who has used his talents best during the year in serving Union College.

Judge W. W. Tinsley Family Memorial Award, by Mrs. Mayo Tinsley Rathfon, to the junior or senior student preparing for a legal career showing the greatest promise for future success.

Union College Faculty Award, to the Varsity Letterman with the highest scholastic average for the year.

Beverly P. and Mossie B. Wilson Memorial Award in English, by Dr. and Mrs. O. J. Wilson to the student majoring in English with the highest cumulative grade point standing who has completed three full years of residence at Union College.

Cecil H. Wilson Award to the junior student with the highest scholastic average for the year.

John Henry Wilson Award, former member of Congress from Barbourville, given by his granddaughter, Mrs. Guy D. Attkisson, Jr., of St. Petersburg Beach, Florida, to the sophomore student from the Fifth Congressional District of Kentucky who has the highest scholastic average for the year.

GRADUATE SCHOOL

The Union College Graduate School program is accredited by the South ern Association of Colleges and Schools and is approved by the State Depart ment of Education of the Commonwealth of Kentucky.

The Graduate School has developed and implemented Master of Arts i Education degree programs for elementary school teachers, reading teacher for the elementary schools, health teachers for the elementary schools, an elementary school librarians. It has developed and implemented Master o Arts in Education degree programs for secondary school teachers of English social studies, health, reading, and for the secondary school librarian. Wit the exception of the field of library science, holders of this degree from Unio College are qualified for the Standard Certificate and Rank II salary in Kentuck and for the fifth year certificate in other states. Students specializing in th field of library science are qualified for having their provisional certificat endorsed for library sciences and for Rank II in salary. The Graduate Schoo also offers the fifth year program for the renewal of the Kentucky Provisiona Certificate.

The Graduate Program at Union is designed primarily to provide ad vanced training for in-service teachers in the geographic area of the college In addition to its regular academic year for the full-time graduate students, i provides summer sessions, Saturday classes, evening classes, internships, fiel programs for research and study, and school-community assistance in solvin school-connected problems.

Organization for Graduate Studies—The Graduate Studies Program ha a Graduate Faculty, a Graduate Council, and a Dean of the Graduate School The Graduate Council determines the policies, programs, curricula, and mem bership in the Graduate Faculty and in the graduate student body.

Types of Graduate Students—Graduate courses are open to: (1) student who enter and become candidates for the degree Master of Arts in Education (2) students who are interested in the fifth year program for renewal of th provisional certificate to teach, and (3) students with baccalaureate degree who wish to broaden their education without reference to a graduate degree

Requirements for Admission to the Graduate School—The applicant fo admission to the Graduate School must possess a Baccalaureate degree fron a regionally accredited four year institution. The applicant must file an applica tion for admission and two copies of a transcript of all previous college work For unconditional admission, the transcript must show a sufficient and satisfac tory undergraduate preparation in the major field. The student preparing fo the standard secondary teaching certificate must select a major field of interes in which he has at least a minor of twenty-one semester hours. If he does no have at least a minor, he will be required to take work at the undergraduat and/or graduate level sufficient to develop a satisfactory minor. The secondar school teacher preparing to serve as a school librarian may take the entir twenty-one semester hours at the graduate level.

Admission to the Graduate School is not equivalent to admission t candidacy.

Admission to Candidacy for the Degree Master of Arts in Education— student will be admitted to candidacy for the degree Master of Arts in Educc tion only after he has fulfilled the following requirements: (1) Shown aptitud

during a semester or full summer session (or an equivalent period of residence n Saturday classes) to accomplish work of a graduate character. A minimum of welve semester hours of graduate work with a grade point average of at least 3.0 fulfills this requirement; (2) Possesses a valid teaching certificate based on our years of standard college preparation in the state in which it was issued; 3) Completed a minimum of fifteen semester hours of professional education courses at the undergraduate and/or graduate level; (4) Satisfied any deficiency n oral or written English that has been reported by any member of the graduate faculty; (5) Made written application to the Dean of the Graduate School for admission to candidacy for the Master of Arts in Education.

Each applicant for candidacy must have an interview with the Dean of the Graduate School. The Dean shall recommend an applicant's admission to candidacy to the Graduate Council following a positive appraisal of the student's personality, character, academic proficiency, and other factors deemed mportant for the completion of the particular curriculum in which the student s working.

Residence—A residence of at least one academic year or its equivalent n summer sessions and/or part-time work is required. At least one semester or one summer session of full-time residence work is required.

Time Limit—Students should fulfill the requirements for the Master of Arts n Education degree within five years. Extension of time for reasons acceptable o the Graduate Council may be granted but all degree requirements must be completed within eight consecutive years. Credit earned over a longer period of time cannot be applied toward the degree.

Course Work—Candidates for the degree Master of Arts in Education must complete thirty semester hours of graduate work in courses with a quality point average of 3.0 or better. At least fifteen semester hours must be in courses open only to graduate students (Courses numbered 500 and above). At least nine semester hours of education courses must be those limited to graduate students. The remaining course work shall be determined by the Dean of the Graduate School and the student's graduate committee in terms of the student's needs, provided that (1) at least twelve semester hours shall be in approved field or fields of interest outside professional education,* and that (2) all such course work shall be approved upper division or graduate in level.

Twelve semester hours per semester for full-time students, six semester hours per semester for in-service teachers, and six semester hours per summer term shall constitute the normal load for graduate students at Union College.

Not more than six semester hours obtained in a different but recognized institution may be transferred and credited to the Master of Arts in Education degree, provided that the work was completed in a recognized graduate school, is appropriate to the student's planned program, and provided that acceptance of the transfer credit does not reduce the minimum period of one academic year at Union College.

Credit not exceeding six semester hours may be accepted from extension study but such credit may not be applied to reduce on-campus residence.

Not more than a total of six semester hours may be accepted from extension and transfer credit combined. No credit toward a Master of Arts in

These twelve hours shall be selected to strengthen the academic specialization of the secondary teacher and or to further develop the general education background of the elementary or secondary teacher.

Education degree may be obtained by correspondence.

Thesis—While the thesis is not required in any program leading to the degree Master of Arts in Education, students with special research interests are encouraged to consider a thesis. If a student elects to write a thesis, he will register for the course 599 in the appropriate department for six semester hours credit in lieu of the same number of hours of course work.

Comprehensive Examination—An oral and/or written examination covering professional education and major academic program components is required during the term in which graduation is scheduled. A representative of the Division of Education shall participate in the evaluation process.

At the conclusion of the examination, the student will be notified in writing whether he has passed or should do further study.

Commencement—Candidates for the degree Master of Arts in Education are expected to be present at commencement to receive the degree in person unless excused in writing by the Dean of the Graduate School at least two weeks prior to commencement. Such candidates must also pay an in absentia fee of $10.00.

Suggestions for Planning the Elementary Teachers Program—This curriculum is designed to improve the professional competence and skills of teachers in elementary schools. It is determined in part by the student's undergraduate program and the student's strengths and weaknesses as revealed by that record. Successful completion of the following program qualifies the graduate for the Standard Elementary Certificate (Rank II).

Professional Education — 9 semester hours

Selection from among courses such as Education 441G, 501, 502, 510, 530*, 532, 535, 550.

Non-Professional Subject Matter — 12 semester hours

Courses such as Mathematics 531 and 532, English 401G, English 551, Gen. Science 594, Psychology 411G, Psychology 441G.

Electives — 9 semester hours

Selection from the two groups above as well as from other courses open to graduate students.

Suggestions for Planning the Special Program for Reading Teachers—This curriculum is designed for the training of reading teachers at the elementary school level as well as teachers for the remedial reading program at the high school level. Persons who complete this program are recommended for the Standard Elementary or the Standard High School Certificate (Rank II) and should choose academic electives which support the certificate.

*Required for the Standard Elementary Certificate.

Professional Education 9 semester hours
Education 530, 532, 535. Education 361 is to be taken for undergraduate credit prior to this sequence.

Non-Professional Subject Matter 12 semester hours
Electives in the academic, related areas with approval of the Dean of the Graduate School, but must include Psychology 525.

Suggested Electives 9 semester hours
Education 441G, 501, 502, 525, 550, 580
English 551
Mathematics 531, 532
Psychology 411G, 431G, 441G

Suggestions for Planning the Program for Teachers of Health—This curriculum is designed to improve the professional competence and skills of teachers of health in the Elementary as well as in the Secondary School. It is determined in part by the student's undergraduate program and the student's strengths and weaknesses as revealed by that record. Successful completion of the following program qualifies the graduate for the Standard High School Certificate and Rank II in Kentucky and for the fifth year certificate in other states.

Professional Education 9 semester hours
Selection of a minimum of nine semester hours from among such courses as Education 441G, 501, 502, 510, 550, 570, and 580.

Health 12 semester hours
The student must select sufficient hours from the following Health courses so that when combined with his undergraduate courses in Health he will have a teaching field of twenty-one semester hours in this subject.
Health 411G, 421G, 431G, 451G, 452G, 481G, 501, 511, 521, 531, and 592.

Suggested Electives 9 semester hours
Selection from the two groups above as well as from other courses open to graduate students with approval of the Dean of the Graduate School. The elementary teacher must take Education 530

Suggestions for Planning the Program for School Librarians—This curriculum is designed for the training of the elementary school librarian and the secondary school librarian depending upon which provisional certificate the teacher holds. It also qualifies the teacher for Rank II.

Professional Education 9 semester hours
Selection from among Education 501, 502, 530*, 535, 550

Library Science 21 semester hours
Library Science 413G, 429G, 433G, 452G, 455G, 472G, 482G, 510, and 539.

Suggestions for Planning the Program for High School Teachers of English—This curriculum is designed to improve the professional competence and skills

*Required for elementary teachers.

of teachers of English in the secondary schools. It is determined in part by the student's undergraduate program and the student's strengths and weaknesses as revealed by that record. Successful completion of the following program qualifies the graduate for the Standard High School Certificate and Rank II in Kentucky and for the fifth year certificate in other states.

Professional Education — 9 semester hours
Selection of a minimum of nine semester hours from among such courses as Education 441G, 501, 502, 510, and 550.

English — 12 semester hours
From twelve to twenty-one semester hours must be selected from the field of English upon the advice of the student's major professor. The undergraduate preparation of the student shall be taken into consideration in planning this part of the program.

Electives — 9 semester hours
Selection from the two groups above as well as from other courses open to graduate students.

Suggestions for Planning the Program for High School Teachers of the Social Studies—This curriculum is designed to improve the professional competence and skills of teachers of the social studies in the secondary schools. It is determined in part by the student's undergraduate program and the student's strengths and weaknesses as revealed by that record. Successful completion of the following program qualifies the graduate for the Standard High School Certificate and Rank II in Kentucky and for the fifth year certificate in other states.

Professional Education — 9 semester hours
Selection of a minimum of nine semester hours from among such courses as Education 441G, 501, 502, 510, and 550.

Social Studies — 12 semester hours
From twelve to twenty-one semester hours must be selected from the field of Social Studies upon the advice of the student's major professor. The undergraduate preparation of the student shall be taken into consideration in planning this part of the program.

Electives — 9 semester hours
Selection from the two groups above as well as from other courses open to graduate students.

Fifth Year Program for Renewal of Provisional Teaching Certificates—All new provisional teaching certificates now issued in Kentucky on the basis of a four-year program and a bachelor's degree are valid for an initial period of ten years and shall be renewed upon "completion of a planned fifth year program of college work." The fifth year program is a mandatory requirement for all teachers and the program planned for this purpose below is available to all teachers and will be planned appropriate to the needs of their respective teaching assignments. It is understood that the teachers involved are certified professionals who have already completed one teacher education program

nd will not be subjected to further academic hurdles or screening processes, ut are being continuously upgraded on the job through this program.

The following plans will satisfy the planned fifth year requirement for the enewal of the provisional teaching certificates and shall qualify a teacher for ank II classification under the Foundation Law.

Plan I The completion of the requirements of the degree Master of Arts in Education at Union College.

Plan II The completion of a planned fifth year program in accordance with the following guidelines:

A. The fifth year program shall be planned individually with each applicant by the Dean of the Graduate School.

B. The fifth year program shall consist of thirty-two semester hours credit with an academic standing of no less than 2.2.

At least eighteen semester hours must be earned at Union College in residence.

At least twelve semester hours shall be graduate level course work.

At least twelve semester hours shall be in professional education.

At least twelve semester hours shall be from non-professional academic disciplines.

C. Credit earned by correspondence shall not apply toward the fifth year program.

Courses of Instruction—The Curricula section following lists both undergraduate and graduate courses. Those courses numbered 500 and above are pen only to graduate students. All courses numbered in the 400's and followd by "G" are open only to upper division and graduate students. All other ourses are open only to undergraduate students.

Graduate Assistantships—Students interested in obtaining a graduate asstantship should turn to page 49.

For further information about the graduate program, write to:

The Dean of the Graduate School
Union College
Barbourville, Kentucky 40906

Curricula

Students should plan carefully their college work, keeping in mind the eneral requirements for degrees and their vocational or professional interest. he Dean of the Faculty, the Registrar, the Director of Guidance, the student's dvisor, Department Heads are all available to assist in the planning of a alanced program.

Students who have not made a vocational or professional choice and udents who expect to enter a professional school which requires a general ollege education are urged to schedule their first two years' work from the llowing program.

Freshman Year	*Sem. Hrs.*	*Sophomore Year*	*Sem. Hrs.*
nglish 111-112	6	Humanities	9
latural Science	8	Foreign Language	6
umanities	3	Social Science	6
ocial Science	6	Electives	9-11
lectives	5		

The pattern of courses for a junior or a senior is determined by the student's choice regarding majors and minors.

Curricula for various objectives are outlined in detail in the Divisions hich follow.

DIVISIONS OF INSTRUCTION

The following seven divisions are maintained at Union College:

Curricula

I. Education
Education
Library Science

II. Fine Arts
School of Music
Art
Dramatics and Speech

III. Health and Physical Education
Health
Physical Education

IV. Languages
English
French
German

V. Religion and Philosophy
Philosophy
Religion

VI. Natural Sciences
Biology
Chemistry
General Science
Home Economics
Mathematics
Physics

VII. Social Studies
Business
Economics
Geography
History
Political Science
Psychology
Sociology
Social Work

The course offerings in these divisions are listed in the order give above in the following pages. A student's background in a given discipline, ar his willingness to work should determine the courses he chooses. If a stude is not certain he has the background for a course, he should consult th instructor. 500 courses are for Graduate students only. Some courses, 40 499 can carry graduate credit.

With a few exceptions, first semester courses bear odd numbers ar second semester courses bear even numbers.

Year courses, the first semester of which is prerequisite to the secon semester, bear hyphenated numbers: 101-102; 321-322.

In courses with laboratory, the lecture and laboratory hours per wee are shown in parentheses following the descriptive title thus: CHEMISTRY 11 112. GENERAL CHEMISTRY (3.2).

One semester hour credit indicates 15 weeks of one fifty-minute perio lecture or two fifty-minute laboratory periods or the equivalent.

Applied music students who are music majors or music minors receiv a minimum of sixty minutes of instruction per week regardless of level credit. Students wishing to enroll for applied music lessons for elective cred will find that conditions may vary from semester to semester, depending the teaching load in the School of Music. Students in this category will receiv a minimum of thirty minutes of instruction per week and may receive mo if conditions permit.

DIVISION I: EDUCATION

1. Education

Mr. Simms *Mr. Boyd* *Miss Moore*
Mr. Robbins *Miss Miles*

OBJECTIVES

1. To give the student a broad general education which will increase his i sight into the social, natural, and ethical world in which he lives.

2. To build within the student desirable attitudes toward the world, his fellow man, and the teaching profession.
3. To help the student achieve and maintain mental and physical health.
4. To stimulate the student to think on increasingly mature levels.
5. To help the student to know and be able to apply the principles of good teaching and learning.
6. To help the student discover and develop his own individual competencies and aptitudes.
7. To help the student develop a consistent, coherent, and sustaining faith in God, and a dedication to the Christian way of life.
8. To help the student become increasingly competent in the skills of communication.
9. To stimulate the student to become intellectually curious so that his interest in learning may continue throughout life.

Application for Admission to Teacher Education Program.—Formal application for admission to the Teacher Education program must be filed with the Head of the Department of Education during the second semester of the sophomore year. Transfer students with junior standing and beyond should apply during their first semester in residence. These applications will be acted on by the Committee on Teacher Education. Application blanks may be secured from the office of the Head of the Department of Education or from the office of the Registrar.

A quality point standing of 2.20 is required for admission to the Teacher Education Program. A bulletin listing other criteria and the procedure for admission to the program as well as to student teaching may be secured from the office of the Head of the Department of Education.

Application for admission to the Teacher Education Program does not include an application for student teaching. A separate application for admission to student teaching must be filed with the Director of Student Teaching one full semester in advance of the time the Student Teaching is to be done.

Teacher Certification.—Members of the Department of Education will act as general advisors for those who plan to teach. Graduates of Union College who meet the requirements can secure the Provisional High School Certificate or the Provisional Elementary Certificate issued by the Kentucky State Department of Education.

ELEMENTARY EDUCATION CURRICULUM

I. *General Education*

A. Humanities-24 semester hours*

English Composition	6 hrs.
Literature	3 hrs.
English Elective	3 hrs.
Art Elective	3 hrs.
Music Elective	3 hrs.
Electives from Literature, Fine Arts (Music, Art, Drama and Speech), Foreign Languages, Philosophy, and Religion	6 hrs.

B. Mathematics and Natural Science-12 semester hours
Biology, Chemistry, Mathematics, Physics, Physical Science.

*No more than 6 hours in any one discipline.

At least 4 semester hours shall be in the field of physical science, and at least 4 semester hours shall be in the field of biological science.

C. Social Sciences-12 semester hours
History, Economics, Political Science, Sociology, Geography

II. General Requirements

A. School Music 2
B. School Art 2
C. Social Science Elective 6
D. Introduction to Psychology 3
E. Children's Literature 3
F. Math for Elementary School Teachers 6
G. Health and/or Physical Education 3

III. Professional Preparation

A. Human Growth and Development 3
B. Introduction to Education 3
C. Fundamental Processes and Learning Materials
Methods of Teaching Mathematics 3
Methods of Teaching Reading 3
Methods and Materials in the Elementary School 4
D. Student Teaching 10

IV. Completion of the Baccalaureate Degree.

SECONDARY EDUCATION CURRICULUM

I. General Education

A. Humanities-24 semester hours*
English Composition 6
Literature 3
Fifteen semester hours selected from Literature, Fine Arts (Music, Art, and Drama, Speech), Foreign Languages, Philosophy, and Religion ..... 15 h

B. Mathematics and Natural Science-12 semester hours
Biology, Chemistry, Mathematics, Physics, Physical Science. At least 4 semester hours shall be in the field of physical science, and at least 4 semester hours shall be in the field of biological science.

C. Social Science-12 semester hours*
Twelve semester hours from Anthropology-Cultural, Economics, Geography, Government, History, Political Science, Sociological Foundations, Sociology, Western Civilization.

* No more than 6 hours from any one discipline.

II. General Requirements for Students Preparing to Teach in Secondary Schools

A. Personal and Community Health ..... 3 hrs.

B. Majors, Minors, and Areas of Concentration*

An Area of Concentration ..... 48 hrs.

One Major of 30 semester hours ..... 30 hrs.

One Major of 30 and one Minor of 21 semester hours ..... 51 hrs.

Majors in subject combinations shall require 36 semester hours credit. n a combination of subjects for majors, not less than 12 semester hours shall be in each subject within the major. Method courses shall be in addition to hese in the majors and minors.

III. Pre-professional preparation

Introduction to Psychology ..... 3 hrs.

Electives which may include such courses as Sociology, Anthropology, Psychology, Biology, Philosophy, etc. (These courses may have been completed as general education) ..... 9-15 hrs.

V. Professional Preparation for Secondary Teachers

A. Introduction to Education ..... 3 hrs.

B. Human Growth and Development ..... 3 hrs.

C. Fundamental Processes and Learning Materials

Methods and Materials in Secondary School ..... 4 hrs.

D. Supervised Student Teaching in the Secondary School ..... 10 hrs.

Note: An average grade of "C" shall be required in all professional education courses.

V. Completion of the Baccalaureate Degree

1. Education

Education 241. Introduction To Education. Three hours

The purpose and function of education. Classroom and school organization, guidance services, library services, evaluation, reporting to parents and other phases of the school program. First and second semesters.

Education 271. Elementary School Art. (See Art 271).

Education 341. Methods of Teaching Mathematics in Elementary School. Three hours

Modern methods and materials for teaching mathematics in the elementary school. *Prerequisite:* Mathematics 203 or equivalent. Second semester.

Education 361. Methods of Teaching Reading Three hours

Best current practices in teaching children to read in the elementary school. Includes directed observation in the public schools. First Semester.

Education 373. Elementary School Music (See Music 373).

Education 401G. Introduction to Counseling and Guidance. (See Psychology 401G).

*Choose one of the three options listed.

Education 432. Methods and Materials in the Elementary School. Four hours
Emphasis on language arts, social studies, and science; directed observation; taken with Education 471, 472. *Prerequisites:* Education 241, 341, 361, and Psychology 351. 90 semester hours college credit; quality point standing 2.20, overall and at Union College; one semester residence and admission to the Teacher Education Program at Union College. No late registration.

Education 441G. Measurement and Evaluation. Three hours
(Also Psychology 441G).
Instruments and techniques for evaluating abilities, aptitudes, personality traits, and interests will be examined, teacher-made evaluative instruments will be given special emphasis. Application of test results to vocational and educational guidance is to be stressed.

Education 452. Methods and Materials in the Secondary School. Four hours
Current teaching methods, materials and innovations in the secondary school with directed observations. *Prerequisites:* Same as for Education 432, except with Education 341, 361 omitted. In addition, a quality point stand of 2.00 or above is required in areas of concentration, major, and minors.

Education 471, 472. Supervised Student Teaching in the Elementary School. Five hours
Laboratory experiences in working with children, teachers, and others in school and community; Supervision by a qualified classroom teacher. Taken with Education 432 for a period of 10 weeks. Transportation and meals paid by the students; Application to be made one semester in advance.

Education 472L, 482L. Laboratory Experiences in Education. Four or five hours
The substitute for student teaching. Considers current problems and trends in teaching with laboratory periods for construction of classroom materials. *Prerequisites:* two years of successful classroom teaching experience, Education 241 and 432 or 452, scholastic standing of 2.20 or above, completion of 90 semester hours; approval by the Committee on Teacher Education; one semester residence at Union.

Education 481, 482. Supervised Student Teaching in the Secondary School. Four or five hours
Under the direction of an experienced teacher, the student teacher directs the usual teaching activities in the classroom for 10 weeks in local public schools. Application should be made one full semester in advance of the time the teaching is to be done. *Prerequisite:* Completion of Education 452.

Education 495-496. Advanced Readings in Education. Three hours each
Open only to advanced students in the field of Education who wish to do intensive reading in a specific interest area. *Prerequisites:* Twelve semester hours of Education and permission of the Head of the Department.

Education 500. Review of Current Educational Literature. Three hours
The educational literature found in current educational publications, with particular stress on periodicals.

Education 501. History and Philosophy of Education. Three hours
Education in the United States. An analysis of the growth of various educational philosophies and the relation of these to modern educational practice.

Education 503. Elementary School Curriculum Three hours
Curricular organization, materials, and methods currently used in elementary schools. Techniques for evaluating and constructing curricula.

Education 504. Secondary School Curriculum Three hours
Curricular organization, materials, and methods currently used in secondary schools. Techniques for evaluating and constructing curricula.

Education 510. Television and other Educational Media. Three hours
Gives practice in operating educational media and construction of classroom materials. Emphasis given to educational television use in the classroom.

Education 511. Educational Sociology. Three hours
Analysis of educational institutions in terms of the interaction of individuals and groups, educational processes, school and community relations, and the function of the educator as an agent of socialization.

Education 525. Psychology of Reading. (See Psychology). Three hours
Basic concepts and principles of learning with its application to reading.

Education 530. Diagnostic and Remedial Procedures in Reading. Three hours
Current research findings in diagnostic and remedial procedures in reading. Techniques for applying diagnostic instruments for locating causes of serious reading deficiencies are developed along with suggested remedial procedures.

Education 532. Techniques and Materials for Remedial Reading. Three hours
Techniques and materials appropriate to the correction of reading difficulties. *Prerequisite:* Education 530.

Education 535. Practicum in Teaching Reading with Clinic. Three hours

Education 550. Improvement of Instruction. Three hours
Democratic school procedures and the methods for improving instruction, evaluation of means, methods, and results of action.

Education 560. Supervision of Student Teaching. Three hours
Experiences deemed necessary for developing students into effective teachers are considered, with attention to participation in teacher-student conferences and planning and executing a work program. *Prerequisite:* one year teaching experience or consent of the instructor.

Education 561. Internship for the Supervising Teacher. Two-four hours
A followup course for Education 560, primarily in the field with part time on the campus in seminars, reports of action research with and about student teaching, honors reading, and evaluation. Open only to those who have had Education 560 and who have a student teacher during the course.

Education 570. Statistics in Education and Psychology. Three hours
Basic statistical course for research in education and psychology. Studies and practices in making distributions, computing measures of central tendency, variation and correlation.

Education 571. School Organization. Three hours
Organization of the modern public school, an understanding of such problems as staff-teacher relationships, program of studies, teacher records and reports, personnel and public relations, utilization of teacher time and of physical facilities.

Education 580. Methods of Educational Research. Three hours
Types of research, selection of problems, collection and classification of data; organization, presentation, and interpretation of materials.

Education 595. Seminar in Educational Problems. Three hours
Guided study and research toward the solution of specific educational problems encountered by members of the seminar.

Education 599. Thesis. Six hours

Library Science

Mrs. Farr *Mrs. Saddler* *Mrs. Hisle*

Designed to allow flexibility of interests, by pursuing prescribed hours, students may (1) Qualify as school librarians-21 hours (including L.S. 472), (2) Qualify for the library experience certificate issued by the Kentucky Department of Libraries, (3) Obtain the foundation courses necessary for admittance to a graduate library school, or (4) Substitute Library Science for a field of concentration for the degree of Master of Arts in Education.

Library Science 133. Information Aids to Learning. One hour
A study of the techniques and basic tools of information research. Designed for undergraduates.

Library Science 410. Non-book Media. (See Education 510). Three hours

Library Science 413G. Organization and Administration of the School Library. Three hours
Designed to help beginning librarians organize and administer school libraries. Planning and managing the library; ordering and preparing materials for use; and work with students and teachers. Offered summers only.

Library Science 429G. Cataloging and Classification. Three hours
Emphasis on functions with sufficient practice to enable students to handle cataloging in the average library situation. Dewey Decimal classification and simplified cataloging emphasized with use of printed cards and other aids.

Library Science 433G. Reference and Bibliography. Three hours
Study of essential reference works according to function performed and area of subject specialization.

Library Science 439G. Selection of Library Materials. Three hours
A general study of selection principles and methods, with emphasis on printed materials as they interpret modern problems, and laboratory experience in utilization of selection aids.

Library Science 455G. Books and Related Materials for Children. Three hours
A survey of children's literature designed to make the student familiar with a variety of children's books and other library materials suitable for supplementing the school curriculum and encouraging recreational reading in the elementary school. Conducting story hours in a local library will be a part of this course.

Library Science 472G. Library Practice. Three hours
Observation and supervised practice in a school library. *Prerequisites:* LS 455, 413, 429, 433, and 439.

Library Science 482G. Seminar in Library Practice. Three hours
Combining seminars with observations in the field. For persons with a valid teaching certificate and at least two years of teaching experience who are acting as school librarians.

Library Science 510. Non-book media. Three hours
(See Education 510).

Library Science 539. Selection of Library Materials. Three hours
A general study of selection principles and methods, with emphasis on print and non-print materials as they interpret modern problems, and laboratory experience in utilization of selection aids.

DIVISION II: FINE ARTS

1. Art *2. Dramatics and Speech* *3. School of Music*

1. Art

Mr. Hollis

The Art Department offers courses to acquaint all students with art and its cultural role in a liberal education through the studio experience and the history of art.

The Art Department reserves the right to retain a maximum of two works of art from each student in each studio course.

Requirements for a Major in Art. Union College offers a major in Art that includes twenty-four hours earned at Union and six hours that must be earned elsewhere. The curriculum contains a core of eighteen hours, including Art Fundamentals (201, 202), six hours; Drawing and Painting (341, 342), six hours; and Survey of Art (373, 374), six hours. The remaining six hours to be taken at Union College and the content and nature of the six transferred hours must be the subject of agreement between the Art Department, the Chairman of the Division of Fine Arts, and the student concerned. In essence, this portion of the curriculum may be tailored to suit the student's interests and needs. As soon as such a program is agreed upon, it becomes an individualized curriculum for the student in question. Changes may be made only with the approval of all of the parties listed above.

Requirements For a Minor in Art. Twenty-one semester hours including Art 495.

Art 132. Introduction to Art. Three hours
An introduction to Art outlining basic approaches, principles, techniques and media as well as styles of expression, both past and present.

Art 201-202. Art Fundamentals. Three hours
A study of the elements of art, the principles of design and form through experimentation of various media and techniques in the studio.

Art 271. Elementary School Art. Three hours
A studio course involving many kinds of art projects in many media; suitable and practiceable for elementary grades. (See Education 271).

Art 341-342. Drawing and Painting. Three hours
A studio course working in various painting and drawing media, with major emphasis on oil media. Some work in three-dimensions. Emphasis on the creative approach. *Prerequisite:* Art 201, 202.

Art 373. Survey of Art: Ancient through Renaissance. Three hours
A survey of the development of western art from pre-historic times through the period of the High Renaissance.

Art 374. Survey of Art: Modern. Three hours
A survey of the development of western art from the end of the High Renaissance to the present.

Art 441. Advanced Studio. Three hours
Studio work in the various painting, drawing and three-dimensional media. Emphasis on the creative approach. *Prerequisites:* Art 201, 202, 341, 342.

Art 495. Special Problems in Art. Three hours

2. Drama and Speech

Mrs. Dontchos

The Fine Arts Division offers a major and a minor in Drama. Its objective is to give all students an opportunity to participate in dramatic productions and to acquaint both the college and the community with the social, religious, aesthetic, and intellectual expressions of the theatre. Its further objective is to train and enlighten interested students so that they may contribute intelligently to theatrical endeavors.

Requirements for a Major in Drama: 36 semester hours, including play production, six hours; acting, six hours; history of the theatre, six hours; speech, six hours; dramatic literature, six hours; directing, three hours; practical experience, three hours. Dramatic literature requirements may be met by taking any cross-listed literature course in which the subject matter or content is dramatic literature.

Requirements For a Minor in Drama: Twenty-one semester hours.

Drama 131. Introduction to the Theatre. Three hours
Basic principles underlying the origin and development of theatrical presentation. Brief study of elements of production.

Drama 151-154. Theatre Practicum. One hour
Actual practice in major college theatrical productions in the areas of acting, directing, and production work. Maximum of four hours toward graduation.

Drama 251. Fundamentals of Acting. Three hours
Theory and practice behind analysis and presentation of a role.

Drama 301. Pre-Modern Drama. (See English 301).

Drama 302. Modern Drama. (See English 302).

Drama 331. Play Production. Three hours
Study and practice in theatrical costuming and make-up. *Prerequisite:* Drama 131 or permission of instructor.

Drama 332. Play Production. Three hours
Study and practice in theatrical design and stage lighting. *Prerequisite:* Drama 131 or permission of instructor.

Drama 352. Advanced Acting. Three hours
Scene study and period styles of acting. *Prerequisite:* Drama 251 or permission of instructor.

Drama 363. Classical Drama in English. Three hours
Major Greek tragedies and comedies, Roman comedies and Seneca as influential literature and works for performance.

Drama 371-372. Shakespeare. (See English 371-372).

Drama 381. History of the Theatre. Three hours
Theory and practice of theatrical presentation from Golden Age of Greece to Ibsen. *Prerequisite:* Junior or senior standing or permission.

Drama 382. History of Modern Theatre. Three hours
Theory and practice of theatrical presentation from Ibsen to present. *Prerequisite:* Junior or senior standing or permission.

Drama 452. Directing. Three hours
Study of analysis of scripts for production and of production techniques. Staging of one-act play required. *Prerequisite:* Permission from instructor.

Drama 495-496. Special Problems in Drama. One to three hours
Prerequisite: permission of instructor.

Speech 131. Fundamentals of Speech. Three hours
Study and practice in the basic elements of speech applicable in daily life, such as voice, articulation, pronunciation, bodily activity, habituation in good oral usage.

Speech 231. Interpretative Reading. Three hours
Analysis and oral interpretation of the various forms of literature. Special emphasis on developing qualities for interpretation of character, emotion, and artistic impersonation.

SCHOOL OF MUSIC

Mr. Green *Mr. Campbell*

Mr. Gunderson *Mr. Dontchos* *Mr. Price*

The School of Music functions within the total academic structure of Union College and participates in the granting of the following degrees: Bachelor of Music (Applied Music or Music Education Major) and Bachelor of Arts (major in music).

The purposes of the School of Music are: To offer intensive professional training to the music major and to provide the general college student with the opportunity to become acquainted with music as one aspect of a liberal culture, either as appreciative listeners or as trained participants; to prepare students for graduate study; as church organists and choirmasters; as private teachers of music; and as teachers of music for the public schools.

Admission. The requirements for admission to the School of Music are the same as for admission to the College in general, except statement No. 1 shall be supplanted by the following;

1. Write to the Director of the School of Music, Union College, Barbourville, Kentucky, for Application for Admission forms.

Regulations. All academic regulations and other requirements and specifications of the Union College catalog will apply unless specific mention is made in the School of Music section of the catalog.

No Special Music Fees. No special fees exist for private lessons in music. Students majoring in other fields of study may avail themselves of class lessons in piano, voice, wind and stringed instruments. Upon sufficient advancement, these students also may receive private instruction without any special fee being charged.

Advanced Placement and Curriculum Acceleration. The School of Music recognizes that its students come with widely varying backgrounds and abilities. In the case of the student with a superior pre-college background in music, advanced placement by examination is possible. In addition, it is also possible for the outstanding student to accelerate his progress through the curriculum by opting for independent study. This process, however, places the responsibility for meeting curricular requirements squarely on the student. In the case of curriculum acceleration, a minimum of three years is required, principally to assure sufficient grounding in the applied music area. Permission of the Director of the School of Music and the student's major professor is required.

Final Examinations For Graduation. These Examinations, written and/or oral, shall be administered when the student and his advisor make such request of the School of Music. These shall be not earlier than three months nor later than two weeks prior to the completion of all work toward the degree.

Transfer Credit. Transfer credit will be accepted only upon examination. Examinations are given during orientation and registration periods of each semester.

Preparatory Department. Preparatory work in piano, wind, voice and stringed instruments is offered in the form of class or private lessons for pre-college students. There is a fee charged for these lessons. A similar arrangement is available for special students of college age and above who are not enrolled as full-time students in the regular curriculum.

Teacher Certification. The degree program in Music Education, leading to the Bachelor of Music, fulfills the Kentucky requirements for teacher certification. Kentucky teacher certification is reciprocal with many other states.

Piano Proficiency. All music majors must pass a proficiency examination in piano prior to graduation.

Ensemble Requirement. All majors are required to participate a minimum of seven semesters in one ensemble and a minimum of four semesters in another ensemble area.

Program Attendance. All applied students are required to attend all Monday afternoon recitals.

Majors. All majors are required to attend three-fourths* of the total number of programs. A year's work in the applied field is not complete until the recital requirements are fulfilled.

Minors. All minors are required to attend one-half* of the total number of programs.

Others registered for applied music. Others registered for applied music must attend one-third* of the total number of programs.

Music 373, 374, and Music 191, 193. Recital attendance for students in Music 373-4 and Music 191 is at the discretion of the teaching staff.

*The total number of programs is made up of all School of Music programs, Artist Series programs, and Southeastern Kentucky Concert series programs on campus. Recital attendance credit may also be obtained by attending Southeastern Kentucky Concert Series programs held off campus. Check the Dept. of Music bulletin board for the total number of programs for the current semester.

Student Recitals. Student recitals will be held the third Monday of each month at 4:00 p.m. With the exception of first semester students, all applied students must perform a minimum of one time each semester.

Each student majoring in music present a junior recital of at least thirty minutes performing time and a senior recital of at least forty-five minutes performing time.

Continuing Examinations. Examinations in seminar classes and tutorial instruction shall proceed at the request of the student and his faculty advisor, and will not necessarily occur in conjunction with the regularly scheduled examination periods of Union College. These examinations, administered by the students advisory committee, shall be both written and oral and when the student demonstrates mastery of a particular area of knowledge, he shall be permitted to proceed immediately to the next area.

Recital Examinations. Junior and Senior recital examinations shall be given no later than two weeks prior to the recital.

Music Library. The music library, located in the Fine Arts Building, contains records, scores, and listening facilities.

Minor in Music. Twenty-one semester hours, including: Music 161, 162; three semester hours selected from either Music 393 or 394; two semester hours of music electives; two years of ensemble; and completion of the 200s level of course numbering in one field of applied Music.

BA MUSIC MAJOR

Please see general BA requirements on page 17.

Academic Emphasis	*Sem. Hrs.*
Foundations of Music	8
Harmony and Ear Training	8
Form and Analysis	4
Music History	12
Applied Music	8
Ensemble	0
	40

Applied Emphasis	*Sem. Hrs.*
Foundations of Music	8
Harmony	6
Form and Analysis	4
Music History	6
Applied Music	16
Ensemble	0
	40

BACHELOR OF MUSIC DEGREES

Music Requirements. These requirements apply to the BM (Applied Music)

Academic	*Sem. Hrs.*	*Applied*	*Sem. Hr*
Foundations of Music	8	Major Applied Study	2
Harmony and Ear Training	8	Recitals	
Form & Analysis	4	*Piano Secondary	
Counterpoint	4	*Stringed Instruments Class	
Music History	6	*Instruments Class (wind)	
Applied Field Literature	4	*Voice Class	
		Pedagogy	
	34	Ensemble	
			3

General Requirements. These apply to the BM (Applied Music).

	Sem. Hrs.
Humanities	12
English 111-112	6
Foreign Language	12
Science	4
Social Science	9
Electives	15
	58

Music Requirements. These apply to the BM (Music Education).

Academic	*Sem. Hrs.*	*Applied*	*Sem. Hr*
Foundations of Music	8	Major Applied Study	1
Harmony and Ear Training	8	Recital	
Form & Analysis	4	*Piano Secondary	
Music History	6	*Stringed Instruments Class	
Conducting	4	*Wind Instruments Class	
Secondary School Music	2	*Voice Class	
Orchestration	2	Ensemble	
	34		2

*Certain of these may be waived or passed by examination if the skill involved coincides wit the students Major Applied study area. In this case the equivalent number of ensemble hour may be applied toward the total needed for graduation.

General Requirements. These include both General College Requirement and Certification Requirements. BM (Music Education).

I. General Education

A. Humanities - 24 semester hours*

English Composition	6 hrs
Literature	3 hrs
Fifteen semester hours selected from Literature, Fine Arts (Music, Art, Drama and Speech), Foreign Languages, Philosophy, and Religion.	15 hrs

Music Majors may use 9 hours of music to help fulfill Humanities requirement

B. Mathematics and Natural Science - 12 semester hours
Biology, Chemistry, Mathematics,

Physics, Physical Science.
At least 4 semester hours shall be in the field of physical science, and at least 4 semester hours shall be in the field of biological science.

C. Social Science - 12 semester hours*
Twelve semester hours from Anthropology - Cultural, Economics, Geography, Government, History, Political Science, Sociological Foundations, Sociology, Western Civilization.

II. General Requirements for Students Preparing to Teach in Secondary Schools

A. Personal and Community Health — 3 hrs.

III. Pre-professional preparation

Introduction to Psychology — 3 hrs.
Electives which may include such courses as Sociology, Anthropology, Psychology, Biology, Philosophy, etc. — 9-15 hrs.
(These courses may have been completed as general education.)

IV. Professional Preparation for Secondary Teachers

A. Introduction to Education — 3 hrs.
B. Human Growth and Development — 3 hrs.
C. Fundamental Processes and Learning Materials
Methods and Materials in Secondary School — 4 hrs.
D. Supervised Student Teaching in the Secondary School — 10 hrs.

NOTE: An average grade of "C" shall be required in all professional education courses.

V. Electives — 12 hrs.

COURSE OFFERINGS

The content of applied music courses outlined below is for the guidance of the student, and is therefore a flexible, rather than a rigid description of the requirement. The letter S following a course numbering indicates that the course is for students other than those enrolled in the Bachelor of Music Curriculum, or is a secondary applied field for music majors.

APPLIED MUSIC

Music 101S-102S. Organ, Secondary. — One or two hours
Manual and pedal technique, pedal scales, easy compositions for manuals with pedal, Gleason Organ Method.

Music 201S-202S. Organ, Secondary. — One or two hours
Pedal scales and technique, Gleason Organ Method; Short Preludes and Fugues, Bach.

Music 301S-302S. Organ, Secondary. — One or two hours
Pedal scales and technique, Gleason Organ Method; Chorales from the Orgelbuchlein, Bach; Mass for the Convents, Couperin.

Music 401S-402S. Organ, Secondary. — One or two hours
Pedal scales and chords; larger preludes and fugues, Bach; pre-Bach compositions; easier pieces of Brahms and Franck.

*No more than 6 hours in any area listed

Music 101-102. Organ. Two or three hours
Gleason Organ Method; Bach, Short Preludes and Fugues, Orgelbuchlein; F. Couperin, Mass for the Convents; Vierne, Twenty-four Pieces in Free Style. Co-requisite: Piano 111S-112S.

Music 201-202. Organ. Two or three hours
Continued work in Gleason Organ Method; Bach, easier preludes and fugues; pre-Bach composers; Brahms, Chorale Preludes; Franck, easier pieces. Co-requisite Piano 211S-212S.

Music 301-302. Organ. Two or three hours
Bach, larger preludes and fugues such as B minor; compositions by earlier composers such as Buxtehude and Grigny; Hindemith, Sonatas; contemporary French composers such as Messiaen, Alain, Langlais.

Music 307. Iunior Recital. Zero or one hour

Music 401-402. Organ. Two or three hours
Bach, Sonatas and larger preludes, fantasias, toccatas, preludes and fugues; Franck, Chorales; larger works of Messiaen, Langlais, Dupre and others.

Music 405-406. Organ Literature. Two hours
The development of the organ and its literature since the fourteenth century. Emphasis is placed on the close relationship of the construction of the instrument and the forms of its literature.

Music 407. Senior Recital. Zero or one hour

Music 111S-112S. Piano, Secondary. One or two hours
Major and minor scales, arpeggios in inversions, two octaves. Technical studies as Kohler, Opus 157 and 242; Bach-Carroll, Bk. 1; Sonatinas (Clementi, Opus 36); Schumann, Opus 68; Chopin, Opus 28; Contemporary Music.

Music 211S-212S. Piano, Secondary. One or two hours
Major and minor scales, arpeggios, dominant, and diminished seventh with inversions, four octaves. Czerny, Opus 636; Bach, Two-Part Inventions; Schumann, *Kinderscenen;* Beethoven Sonatas, Opus 49; Contemporary Music.

Music 311S-312S. Piano, Secondary. One or two hours
See Music 111-112.

Music 411S-412S. Piano, Secondary. One or two hours
See Music 211-212.

Music 111-112. Piano. Two or three hours
Major and minor scales and arpeggios four octaves, parallel and contrary motion; Czerny, Opus 299; Bach, Three-Part Inventions; Sonatas by Haydn, Mozart, and Beethoven; Compositions of Romantic and Contemporary Composers.

Music 211-212. Piano. Two or three hours
Major and minor scales in thirds, sixths, and tenths; arpeggios, dominant, and diminished sevenths. Czerny, Opus 740; Bach, WTC 1; Sonatas by Mozart and Beethoven; Romantic, Impressionistic and Contemporary compositions.

Music 311-312. Piano. Two or three hours
Scales in double thirds. Chopin Etudes; Bach, WTC II and larger works. More difficult Romantic, Impressionistic and Contemporary compositions.

Music 317. Junior Recital. Zero or one hour

Music 411-412. Piano. Two or three hours
Chopin Etudes; o standard concerto; Material for a Senior Recital including one large Romantic composition.

Music 413-414. Sight Reading & Accompanying. One hour
Proficiency in reading the various clefs, vocal scores, and accompaniments, with an emphasis on sensitive accompanying.

Music 415-416. Piano Literature. Two hours
A survey of the development of keyboard music.

Music 417. Senior Recital. Zero or one hour

Music 121S-122S. Voice, Secondary. One or two hours
See Music 121-122.

Music 221S-222S. Voice, Secondary. One or two hours
See Music 221-222.

Music 321S-322S. Voice, Secondary. One or two hours
See Music 321-322; except less extensive repertoire is required.

Music 421S-422S. Voice, Secondary. One or two hours
See Music 421-422; except less extensive repertoire is required.

Music 121-122. Voice. Two or three hours
Principles of posture, breathing, tone focus, diction, phrasing, and interpretation. Repertoire: songs in English; songs of old Italian and French masters; folk songs.

Music 221-222. Voice. Two or three hours
Continuation of Music 121-122.

Music 321-322. Voice. Two or three hours
Advanced technical problems. Repertoire: German lieder; French, English, and American art songs; opera and oratorio arias; contemporary song literature.

Music 327. Junior Recital. Zero or one hour

Music 421-422. Voice. Two or three hours
Continuation of Music 321-322.

Music 425-426. Voice Literature. Two hours
Vocal literature and style in German lieder, contemporary English and American Art Song, French melodies, Elizabethan and Baroque Songs and Sacred Solo Songs including a study of language pronunciation.

Music 427. Senior Recital. Zero or one hour

Violin, Viola, Cello or Bass.
The course outline is for violin study. A similar outline exists for other instruments.

Music 131S-132S. Violin, Secondary. One or two hours
Basic violin fundamentals, left and right hand positions, posture, major and minor scales and arpeggios in the first position. Studies: Wolfhart and Sitt. Repertoire: Graded solo material of minimum difficulty.

Music 231S-232S. Violin, Secondary. One or two hou
Second and third positions. Major and minor scales through two octave Studies: Wolfhart—Book II, Sitt, Mazas, and Sevcik. Repertoire: Grade material from the Baroque and Classic periods.

Music 331S-332S. Violin, Secondary. One or two hou
See Music 131-132.

Music 431S-432S. Violin, Secondary. One or two hou
See Music 321-323.

Music 131-132. Violin. Two or three hou
Problems of left and right hand technique, scales and arpeggios throug sixth position. Studies: Kayser, Fiorello, Mazas, Sevcik. Repertoire: Sonata and solo pieces from the Baroque and Classic periods.

Music 231-232. Violin. Two or three hou
Major and minor scales and arpeggios through three octaves and chron atic scales. Studies: Kreutzer, Sevcik, and Rode. Repertoire: Sonatas an concertos, Handel, Vivaldi, Bach, Mozart, selected Romantic works.

Music 331-332. Violin. Two or three hou
Scales in thirds, sixths, and octaves. Studies: Continued. Repertoire: Sa atas and concertos by Mozart, Spohr, Vieuxtemps, Schubert and Franc selected solo works of the late Romantic and Contemporary period

Music 337. Junior Recital. Zero or one ho

Music 431-432. Violin. Two or three hou
Continue all scales and studies. Repertoire: Beethoven Romances, Bac Solo Sonatas; at least one or more movements of a major concerto.

Music 435-436. String Literature. Two hou
The Baroque Period to the present day with special attention to stylist detail and ornamentation.

Music 437. Senior Recital. Zero or one ho

Flute, Clarinet, Oboe, Bassoon, and Other Woodwind Instruments.
The course outline is for clarinet study. A similar outline exists for othe instruments.

Music 141S-142S. Clarinet, Secondary. One or two hou
Rudiments of tone production and technique. Langenus, Method, Bk. Scales and arpeggios through three flats and three sharps, two octave Chromatic scale, three octaves. Weinberger, Sonatine.

Music 241S-242S. Clarinet, Secondary. One or two hou
Langenus, Method, Bk. II. Continue study of tone production and tec niques. Selections from Voxman, Concert and Contest Collection. Voxma Lament and Tarantella. Delmas, Promenade.

Music 341S-342S. Clarinet, Secondary. One or two hou
See Music 141-142.

Music 441S-442S. Clarinet, Secondary. One or two hou
See Music 241-242.

Music 141W-142W. Clarinet. Two or three hours
Rudiments of tone production and technique; Rose, 40 Studies, Bk. I. Selected studies from Klose Method. Memorize major and minor scales. Voxman, Concert and contest collection; Anderson-Waln, Scherzino.

Music 241-242. Clarinet. Two or three hours
Selected studies from Klose, Cavallini, Rose and Baermann. Bach-Simon, Solos and Duets; Bonade, Modern French Concour Solos; Debussy, Premier Rhapsody; Mozart, Adagio from Concerto for Clarinet.

Music 341W-342W. Clarinet. Two or three hours
Kroepsch, Daily Studies, Bk. I & II. Selected studies from Rose, 40 Studies, Bk. II; Baermann Method, Bks. III & IV; Jean-Jean, 18 Etudes. Webster Concertino; G. Finzi, Five Bagatelles.

Music 347W. Junior Recital. Zero to one hour

Music 441W-442. Clarinet. Two or three hours
Selections from Masterworks for Clarinet (Schirmed ed.); Perier, Vingt-Deux Etudes; Gabucci Studies. Study of Orchestral Literature. Brahms Sonata, Op. 120, No. 1; Mozart Concerto for Clarinet.

Music 445W-446W. Woodwind Literature. Two hours
Clarinet literature from the various periods with special attention to stylistic detail and ornamentation.

Music 447W. Senior Recital. Zero or one hour

Trumpet, French Horn and Other Brass Instruments.
The course outline is for trumpet study. A similar outline exists for other brass instruments.

Music 141S-142S. Trumpet Secondary. One or two hours
Basic problems of tone production and technique; scales, arpeggios and appropriate graded literature.

Music 241S-242S. Trumpet Secondary. One or two hours
Continuation of 141S-142S.

Music 341S-342S. Trumpet Secondary. One or two hours
See Music 141B-142B.

Music 441S-442S. Trumpet Secondary. One or two hours
See Music 241B-242B.

Music 141B-142. Trumpet. Two or three hours
Concentration on tone production and style. "C" Transposition, representative etudes and solo literature.

Music 241B-242B. Trumpet. Two or three hours
Tone production as a simple procedure carried into more difficult music, including etudes and solos; transpositions D, Eb, E, F and A.

Music 341B-342B. Trumpet. Two or three hours
Emphasis on the tone, production, style and transposition, including etudes to be transposed in C, D, Eb, E, F and A Trumpet.

Music 347B. Junior Recital. Zero to one hour

Music 441B-442B. Trumpet. Two or three hou
Advanced literature emphasizing style, tone, and transpositions.

Music 445B-446B. Brass Literature. Two hou
A study of the literature, both solo and ensemble, for the principal an related brass instruments with attention to stylistic detail and ornamenta tion.

Music 447B. Senior Recital. Zero or one hou

ENSEMBLES

Music 151. Chorus. Zero or one hou
Open to all college students; performs major choral works in concert One rehearsal per week. May be repeated for credit.

Music 152. Choir. Zero or one hou
Open by audition only; performs in chapel, Christmas concert, yearl tour, spring concert, graduation. Limited to forty-nine students; four re hearsals per week.

Music 154. Concert Band. Zero or one hou
Open to all those interested in band music. Two rehearsals per week May be repeated for credit.

Music 156. Collegium Musicum. Zero or one hou
Open to interested students. A performance group intended to give th student acquaintance with less frequently performed literature. One re hearsal per week.

Music 157. Small Ensembles. Zero or one hou
Instrumental and vocal ensembles varying in size and type according t the needs and interests of the students enrolled. May be repeated fa credit.

Music 157-A. Stage Band.

Music 157-B. Brass Ensembles.

Music 157-C. Woodwind Ensembles.

Music 357. Opera Workshop. Zero or one hou
Experience in the standard and contemporary opera repertoire; prepara tion and presentation of complete operas and programs of excerpts with costumes and scenery. Admission by audition only. May be repeat ed for credit.

THEORY

Music 161-162. Foundations of Music. Four hou
A combined course in the areas of music theory, history, and literature Five periods per week.

Music 261-262. *Harmony.* Three hours
Continuation of Music 161-162 in the area of part-writing and analysis. Advanced chromatic harmony of the middle Romantic period. Keyboard harmony included. Three periods per week. *Prerequisite:* Music 162.

Music 263-264. *Ear Training.* One hour
Sight singing, ear training, and dictation to be taken concurrently with Music 261-262. Two periods per week. *Prerequisite* 162.

Music 361-362. *Form and Analysis.* Two hours
The development of musical forms from small units to large. Study of large scale analytic techniques including those necessary for late 19th and early 20th Century Music. *Prerequisite:* Music 262.

Music 365. *Music Arranging.* Two hours
Basic techniques of orchestration and arranging. *Prerequisite:* Music 262.

Music 461-462. *Counterpoint.* Two hours
The vocal counterpoint of Palestrina and the instrumental counterpoint of Bach. *Prerequisite:* Music 162.

Music 463. *Theory Seminar.* Three hours
An advanced course in music theory, including a study of contemporary practices. *Prerequisite:* Music 362, and permission of the instructor. Offered upon sufficient demand.

MUSIC EDUCATION

Music 171-172. *String Instruments Class.* One hour
Class instruction in String instruments.

Music 173-174. *Piano Class.* One hour
Class instruction in piano.

Music 175-176. *Wind and Percussion Instruments Class.* One hour
Class instruction in woodwind, brass, and percussion instruments.

Music 177-178. *Voice Class.* One hour
Class study for students who are not prepared to study at the level of private applied voice.

Music 373. *Elementary School Music.* Three hours
Methods and materials in the elementary school. Will include functional ability at the piano keyboard, the fundamentals of music, and library research. (see Education 373).

Music 374. *Secondary School Music.* Two hours
Methods and materials for junior and senior high school. Will include research projects. *Prerequisite:* Junior standing in the School of Music or permission of the instructor.

Music 473-474. *Conducting.* Two hours
Basic techniques of the art of conducting; score reading, both vocal and instrumental; rehearsal techniques; balance and interpretation; organization; survey and study of literature; practical work with ensembles.

Music 475-A, B, C, D, E, F, Pedagogy. One hou
Techniques and principles of private and class instruction with examin
tion of carefully considered and recommended materials.

A-Organ	C-Voice	E-Woodwind
B-Piano	D-Strings	F-Brass

HISTORY AND APPRECIATION

Music 191. Introduction to Music. Three hou
A study of musical materials and styles for the liberal arts student wi
a limited musical knowledge. Not open to music majors or music minor

Music 192. Introduction to History of American Popular Music. Three hou
A historical approach involving the study of styles and personalities b
ginning with the origins of jazz and ending with the current trends ar
concepts of today. Open to all students.

Music 193. Introduction to American Music. Three hou
A study of serious American music from the Pilgrims to the present wi
emphasis on the music of the 20th century for the liberal art studer
Open to all students.

Music 194. Introduction to the History of Church Music. Three hou
The history and function of Western Church music from ancient Judais
through contemporary usage. Open to all students.

Music 393-394. Music History. Three hou
(393) Antiquity through Classic period; survey of literature including ou
side reading and listening.
(394) Romantic period through 20th Century

Music 493-494. Two or three hou
Independent study in the area of Music History. Major paper require
Prerequisite: Music 393-394.

Music 495-496. Music Research Seminar. Three hou
Independent research on an approved project. *Prerequisite:* Permissic
of the student's major professor.

DIVISION III: HEALTH AND PHYSICAL EDUCATION

1. Health *2. Physical Education*

Mr. Moore *Mr. Sommer* *Miss Patridge*
Mr. Calitri *Mrs. Hacker* *Mr. Ersla*

OBJECTIVES

. To give the student a broad view into the field of Health and Physical Education.

2. To develop the student socially.

3. To teach the student physical skills and abilities so that he may enjoy worthwhile activities.

4. To develop an understanding and appreciation of techniques and strategies of sports.

5. To prepare the student for leisure time.

6. To eliminate or diminish stress and worry through exercise and sports:

7. To develop safety skills.

A maximum of eight semester hours of service courses may be credited oward graduation. Four service courses may be applied to a major in Physi-al Education.

Students who are preparing to teach in an elementary or secondary chool in Kentucky are required by the State Board of Education to complete he following courses: for an elementary school certificate, Health and Physical ducation 261; for a secondary school certificate, Health 280.

Requirements For a Major in Physical Education. Thirty semester hours, which must include Physical Education 351 and 421.

Requirements For a Minor in Health. Twenty-one semester hours which must include Health 340, but does not include Health 280.

Requirements For a Minor in Physical Education. Twenty-one semester hours which must include Physical Education 351, and 421.

SERVICE COURSES

11 Beginning Swimming
12 Intermediate Swimming
13 Senior Life Saving
21W Team Sports for Women
22M Team Sports for Men

131	Archery and Badminton	135	Tumbling and Trampolining
132	Beginning Golf	141	Folk Dancing
133	Beginning Tennis	142	Social Dancing

The above required courses meet the equivalent of two periods a week for one semester hour credit.

1. Health

Health 231. First Aid and Safety. Three hours
Designed to aid the student in developing an understanding of the basic principles of accident prevention as applicable to the home, the highway, and the school. Special attention is directed to first aid measures for various injuries and illnesses.

Health 271. Marriage and the Family. (see Sociology 271). Three hours
Background experiences in the lives of young people leading up to courtship and marriage; the establishment and functioning of the home, with related biological and social factors. Emphasis upon changing attitudes toward family relationships, some of the problems involved, and suggested solutions.

Health 280. Personal and Community Health. Three hours
The relation of bodily functions to personal health and grooming and to community and national health.

Health 311. History and Principles of Health Education. Three hours
A background of health and the development of school health education. Underlying principles of the present day school health program.

Health 340. Physiology and Anatomy. Three hours
Basic instruction in the functioning of the cells, organs, and systems of the human body.

Health 391. Principles of Nutrition. (see Home Economics 391). Three hours
Diet problems; study of nutrients and their relationship to health; special problem in the field of nutrition required by each student. First and second semesters.

Health 411G. Health Education in the Secondary School. Three hours
The experiences, activities and instruction of secondary students that lead to intelligent self-direction of health behavior.

Health 421G. Community Health. Three hours
The social and cultural factors, the physical environment and the health agencies and services as they relate to the health of the community.

Health 431G. Mental Health. (see Psychology 431G). Three hours

Health 451G. School and Community Health Workshop. Three hours
Reveals the relationship needed between the school and community to promote the total health of the population. Speakers are secured from official agencies, voluntary agencies, professional agencies sponsored agencies, and other colleges. Small groups are utilized for discussions, field trips and study through audio visual aids.

Health 452G. Abnormal Psychology. Three hours
(See Psychology 452G).

Health 481G. Epidemiology: General Principles. Four hours
Three lectures, one laboratory. The approach in epidemiology is to acquaint the student with the general principles of epidemiology dealing with the agent, host, and environmental factors, their interrelationships, and their influence on disease in the urban society.

Health 495-496. Problems in Health. One to three hours
Independent study for advanced students only.

Health 501. Critical Areas in Health. Three hours
Specific health problems confronting society today with particular reference to secondary age students.

Health 511. Administration of the School Health Program. Three hours
Administrative arrangements found in school health programs and the utilization of administrative techniques and school personnel in conducting an efficient health program.

Health 521. Health Problems of the Exceptional Student. Three hours
Anomalies existing in person, particular students, and the problems they encounter in adjusting to situations arising in daily living.

Health 531. Evaluation in the School Health Program. Three hours
Guidelines for determining the effectiveness of the component parts of the school health program with particular emphasis on evaluating health instruction.

Health 592. Environmental Health Workshop. Three hours

2. Physical Education

Physical Education 155. Horsemanship One hour
Lessons in riding in an English saddle.

Physical Education 241. History of Physical Education. Two hours
From primitive man through the present, with particular emphasis on Greek physical education, European systems, and development of physical education in America. Some research into the history of various sports.

Physical Education 261. Health and Physical Education in the Elementary School. Three hours
The role of the classroom teacher in physical education — on the playground, in the gymnasium, and classroom. How to correlate and evaluate. The application of games, movement, exploration, rhythms, and self-testing activities, and screening tests.

Physical Education 271. Sports Officiating. Two hours
Rules and officiating techniques in football, basketball, baseball, and track.

Physical Education 291. Principles of Dance. Two hours
Elementary rhythms, folk, square, social, and modern dance.

Physical Education 301. Coaching Football. Two hours

Physical Education 302. Coaching Basketball. Two hours

Physical Education 303. Water Safety Instruction. Two hours
Prerequisite: Senior Life Saving (113).

Physical Education 304. Coaching Baseball. Two hours

Physical Education 305. Coaching Track and Cross Country. Two hours

Physical Education 317. Three hours
Organization and Administration of Intramurals.
Planning, organizing, and directing a program of intramural activities for men and women. Attention is given to activities, awards, officials, finances, publicity, and other factors necessary to consider in administering an intramural program.

Physical Education 320. Adapted Physical Education. Three hours
Health conditions which require the physical education program to be adapted to meet the special needs of the atypical student.

Physical Education 321. Recreational Leadership. Three hours
Leadership techniques in music, social games, arts and crafts, dramatics, camping, nature and sports. Designed to aid students in enriching their own leisure time and to prepare for leadership in teaching, full-time Christian service, and social service.

Physical Education 351. Three hours
Tests and Measurements in Physical Education.
Evaluating physical education students by the construction and administering of tests. Places emphasis on reliability, objectivity, and validity of tests, and the use of test results, motivation and school marks.

Physical Education 361. Three hours
Organization and Administration of Physical Education.
Administration of health and physical education in school. Setting up program, and evaluating results. Emphasis is given to budget and finance, office management, preparing the curriculum, facilities, legal factors, and public relations.

Physical Education 421. Anatomy & Kinesiology. Three hours
An analysis of human motion and its relation to athletic and gymnastic activities; practical application of these principles.

Physical Education 435. Coaching and Officiating Team Sports (Women).
Theory and practice of techniques employed in field hockey, basketball, volleyball, softball, and soccer, with emphasis on methods of teaching.

Physical Education 436. Three hours
Individual and Dual Sports for Women.
Theory and practice of techniques employed in archery, badminton, golf, and tennis, with emphasis on methods of teaching.

Physical Education 491. Three hours
Seminar in Conducting Physical Activities.
Seminar of the problems involved in the teaching of physical skills in the required program with an opportunity to gain practical experiences.

Physical Education 495-496. One to three hours
Problems in Physical Education.
Independent work for advanced students only.

DIVISION IV: LANGUAGES

1. *English*	2. *French*	3. *German*
	1. *English*	
	Mr. Stallcup	
Mr. Merchant	*Mrs. Caine*	*Mrs. Hisle*
Miss Watts	*Mrs. Hutchins*	*Mrs. Townsend*

For the student minoring or majoring in English, the general aims of the Department's courses, as listed below, are the broadening of the student's understanding and enjoyment of literature, the development of a basis for intelligent criticism, and the provision of a foundation for further study in the field. Stress is also laid upon accurate reading and writing through critical explication of texts and criticisms of student papers.

Requirements For a Minor. A minimum of twenty-four hours including 111, 112. This must include: six hours of English Literature survey; six of American Literature survey; three hours of Shakespeare; and three hours of linguistic study.

Requirements For a Major. A minimum of thirty semester hours in addition to English 111, 112, including the department requirements noted for Minors, plus six hours of a foreign language and one seminar (an advised 400G course).

Requirements For an Area. Forty-eight semester hours, thirty of which shall satisfy the requirements for a Major. The other eighteen semester hours must include an advanced writing course and courses in speech or drama.

Students preparing to teach high school English should elect the English area. English Minors who expect Department recommendation for teacher training should consult the Department Head about their individual needs for advanced writing and literature courses.

English 110. Elementary Freshman Composition — Three hours
This a course in basic writing skills. It includes a writing program of progressive difficulty, starting with the sentence and ending with the theme.

English 111. Freshman Composition. — Three hours
Writing correct and effective sentences, paragraphs, and short themes and studying models of descriptive, narrative, expository, and argumentative writing. This course must precede English 112.

English 112. Freshman English, continued. — Three hours
Study of short stories, the novel, drama, and poetry, with particular attention to literary form and the interpretation of literature. Longer themes, requiring the use of *Apparatus Scholasticus,* and a considerable amount of critical writing.

English 221-222. Survey of English Literature. — Three hours
From *Beowulf* into the 20th century. The first semester extends to the Age of Dryden and the second starts with the Neo-classics and continues through the Romantic and Victorian periods.

English 301. English Drama to Sheridan. (Also Drama 301). Three hours
The origins and development of the drama in English, from the Miracle Plays through Sheridan, exclusive of Shakespeare.

English 302. Modern Drama. (Also Drama 302). Three hours
A survey of world drama, selected to illustrate the varying conceptions of "the dramatic" from Ibsen to Ionesco. *Prerequisite:* Sophomore English or permission of the instructor.

English 312. Junior Composition. Three hours
A course in advanced composition which may be taken instead of English 112 to fulfill the college's composition requirement. Class discussion and assignments will concentrate on different topics of current interest each semester (e.g. science fiction, the occult, protest literature). Weekly themes and a term paper will be required. *Prerequisites:* Junior standing and English III.

English 331. English Romantic Period. Three hours
An intensive and appreciative study of the prose and poetry of the first third of the nineteenth century. Special emphasis is placed upon the poetry of Wordsworth, Coleridge, Byron, Shelley, and Keats. *Prerequisites:* English 221, 222 or permission of the instructor.

English 332. Victorian Period. Three hours
Major poets and prose writers and their reflections of the era's great struggles. *Prerequisites:* English 221, 222 or permission of the instructor.

English 341. Survey of American Literature (1630-1870). Three hours
A cultural survey of the colonial writers, followed by a detailed critical examination of the "classic" authors from Irving and Cooper through Emerson and Whitman. *Prerequisites:* English 221, 222, or permission of the instructor.

English 342. Survey of American Literature since 1870. Three hours
A survey of the trends in prose and poetry with reference to the development of American culture from Whitman to present. *Prerequisites:* English 221, 222, or permission of the instructor.

English 351. The English Novel. Three hours
The historical study of the growth of the novel as a form, with selected examples from Defoe through Hardy. Consideration is given to the literary and social background of this particular form.

English 352. The American Novel. Three hours
From the "American Renaissance" of the 19th century through the rise of realism to Faulkner and more recent developments. Includes reading of selected novels and study of their literary and historical backgrounds.

English 355. Survey of Children's Literature. Three hours
A course designed to make the student familiar with a variety of books and other library materials suitable for supplementing the school curriculum and encouraging recreational reading in the elementary school. Conducting story hours in a local library will be a part of this course.

English 361. Greek Literature in English. Three hours
Analysis of selected masterpieces of Attic and Ionian culture, with special attention to the epic, to translations of the Greek Anthology, and to the prose of the historians and orators.

English 362. Latin Literature in English. Three hours
Analysis of selected masterpieces of the Golden and Silver Ages of Roman literature: epic, lyric, satirical, oratorical, historical and narrative.

English 363. Classical Drama in English. Three hours
Major Greek tragedies and comedies, Roman comedies and Seneca as influential literature and works for performance.

English 364. Medieval Literature. Three hours
A comparative study of the major works of the European Middle Ages. Emphasis will be placed on the courtly love tradition, the Germanic Epic, and development of the Arthurian Romance.

English 365. Renaissance English Literature. Three hours
A study of the non-dramatic prose and poetry of the 16th Century. Sets the literature into the humanism of this great period of physical, spiritual, and social growth. *Prerequisites:* Freshman and Sophomore English and instructor's permission. Alternate years.

English 371. Shakespeare: Histories and Comedies. Three hours
(Also Drama 371).
The Histories and Comedies. An intensive study of selected plays. Emphasis will be placed on both internal critical techniques and the relation of Shakespeare's art to medieval and renaissance England and the Continent. *Prerequisites:* English 221, 222.

English 372. Shakespeare: Tragedies and Problem Plays. Three hours
(Also Drama 372).
A close analysis of selected tragedies and a number of tragi-commedies. Some attempt will be made to develop an overall view of the principles of Shakespearean tragedy in relation to the genre as a whole. *Prerequisite:* English 221, 222.

English 381. Seventeenth Century English Literature. Three hours
A survey of prose and poetry from Ben Jonson through the Restoration, with special emphasis on metaphysical verse and baroque English prose. *Prerequisites:* Freshman and Sophomore English.

English 382. Neo-Classical English Three hours
Literature of the Eighteenth Century.
A survey of major English prose and poetry from Dryden through Samuel Johnson. *Prerequisites:* Freshman and Sophomore English.

English 391. Intermediate Writing. Three hours
Practice in idiomatic, adult, expository style, with study of models of current literary practice.

English 401G. Theory of Grammar. Three hours
A study of the prescriptive and modern descriptive theories of syntax and of both the definitions and uses of "grammar." *Prerequisite:* Junior standing. Required for teachers and graduate students.

English 402G. Advanced Composition. Three hours
For the student who wishes to become a more competent writer. Research papers, factual narratives, argumentation and "creative" writing are required according to the needs and aptitude of the student.

English 411G. Chaucer. Three hours
A study of selected works of Geoffrey Chaucer and his literary *milieu.* Middle English texts are used. *Prerequisites:* Freshman and Sophomore

English and the consent of the instructor. (A knowledge of Latin, Frenc or German is desirable.)

English 421G. History of the English Language. Three hour

A study of the growth and structure of the English language from th Anglo-Saxon period to the present, with particular attention to mor phology and etymology. For Majors and Minors in the Language Divisio with Junior standing. Required for teaching candidates.

English 451G. Contemporary Poetry. Three hour

A survey of American and British Poetry, with consideration of ways o reading, criticizing, and writing verse in this century. Required for teache candidates and graduate students.

English 461G. The Contemporary English Novel. Three hour

A study of novelists of the twentieth century, from Conrad. Emphasis wil be placed on the formal development of the novel and its psychologica explorations in James Joyce. *Prerequisite:* an English major with Junio standing or consent of the instructor. Offered on demand.

English 495-496G. Readings in Literature. Three hour

Intensive individuol work, under supervision, in some phase of English American, or comparative literature, composition or English teaching ma terials not otherwise covered in the curriculum, with oral reports an oral and written examinations. *Prerequisites:* Fifteen hours of Englis above English 111, 112, and permission of the head of the department

English 521. Advanced Study of English Literature, 500-1700. Three hour

Intensive study of English Literature within this period, writing one o more studies thereon, and making an oral presentation of results of thi study.

English 522. Advanced Study of English Literature, 1700-1925. Three hour

Intensive study of English Literature within this period, writing one o more studies thereon, and making an oral presentation of results of thi study.

English 541. Advanced Study of American Literature, 1600-1860. Three hour

Intensive study of American Literature within this period, writing one o more papers thereon, and making an oral presentation of results of thi study.

English 542. Advanced Study of American Literature, 1860-1960. Three hour

Intensive study of American Literature within this period, writing one o more studies thereon, and making an oral presentation of results of thi study.

English 551. Comparative Studies in Linguistic Theory. Three hour

English 552. Research Problems in Linguistics. Three hour

Investigative thesis on a problem set by the instructor.

English 565. Advanced Problems in High School English. Three hours

Research in problems of written composition, literature, or language i secondary school classes, including evaluation of literature of the field The work will include the writing of a report.

English 566. Research in Problems of Teaching English Literature. Three hour

A thesis, or several studies of methods and materials in junior or senio high school or junior college classes.

English 575. Research Project in Literature or Language. Two or four hours
Intensive study of an aspect of literature or linguistics, writing a report thereon, and oral presentation of that report. Intended to acquaint school teachers and administrators with the uses of English scholarship.

English 581. Research Project in Literature, English. Three hours
A thesis on the language, aesthetic, social effects or methodology of teaching a major work of British literature from Anglo-Saxon times to the present.

English 582. Research Project in Literature, American. Three hours
A thesis on the "Americanism" in language, social origin, or methodology of teaching a major work of American Literature, from Captain John Smith to the present.

English 599. English Concentration Thesis. Six hours
Under direction of a thesis master and with approval of a Departmental Committee, preparation and presentation of a research or critical thesis on an aspect of English or American Literature or Language, or the teaching thereof, or the teaching of Composition at any level.

2. French

Mrs. Hamilton

The Department hopes to provide the basis for an understanding of France and her culture, as well as a basic knowledge of the French language. All students of French are required to attend the language laboratory regularly. Students offering more than one entrance unit in French and students transferring from other colleges should consult the Head of the Modern Language Department before registering for any course in French.

Requirements for a Major. Twenty-four semester hours, including French 341. Thirty semester hours recommended.

Requirements for a Minor. Twenty-one semester hours.

French 111-112. Elementary French. Three hours
Basic French grammar; practice in the oral and written language.

French 201. Elementary French Conversation. One hour
Practice in speaking and understanding standard modern French.

French 211-212. Intermediate French. Three hours
More detailed study of grammatical structure; study of important literary works; individual collateral reading. *Prerequisite:* French 111-112 or equivalent.

French 331. French Civilization. Three hours
The economic, social, and cultural development of France; French contributions to world civilization. May not count toward fulfillment of the language requirement but may be counted on a major or minor. No knowledge of French required. Offered on sufficient demand.

French 341. History of French Literature. Three hours
A chronological survey of French literature with extensive collateral readings. Required of all French majors. *Prerequisite:* Permission of the instructor. Offered on sufficient demand.

French 361-362. Advanced Grammar, Composition, and Conversation.
Prerequisite: Permission of the instructor. Offered on sufficient demand.

French 411-412. The French Novel. Three hours
The history of the French novel from the seventeenth century to the present. *Prerequisite:* Permission of the instructor. Offered on sufficient demand.

French 421. French Poetry. Three hours
A survey of French poetry of the sixteenth to twentieth centuries, with analysis of representative works. *Prerequisite:* Permission of the instructor. Offered on sufficient demand.

French 431-432. The French Theatre. Three hours
Survey of the principal works of the French theatre from Corneille to the present. *Prerequisite:* Permission of the instructor. Offered on sufficient demand.

French 491-492. Honors Program in French.
Maximum of four hours per semester only by permission of Department Head.

French 495-496. Readings in French Literature. Three hours
Open only to students capable of a considerable amount of independent reading. *Prerequisite:* Permission of the instructor.

3. German

Mr. Turner *Mr. Marigold*

The Department provides the basis for an understanding of Germany and its culture as well as a basic knowledge of the German language. All students of German are required to attend the language laboratory regularly. Students offering more than one entrance unit in German and students transferring from other colleges should consult the Head of the Modern Language Department before registering for any course in German.

Requirements for a Major. Twenty-four semester hours, including German 341. Thirty semester hours recommended.

Requirements for a Minor. Twenty-one semester hours.

German 111-112. Elementary German. Four hours
Basic German grammar; simple reading; practice in the oral and written language.

German 201. Elementary German Conversation. One hour
Practice in speaking and understanding standard modern German.

German 211-212. Intermediate German. Three hours
More detailed study of grammatical structure; reading of important literary works; individual collateral reading. *Prerequisite:* German 111-112 or equivalent.

German 331. German Civilization. Three hours
The economic, social, and cultural development of Germany; German contributions to world civilization. May not count as part of the language requirement but may be used as part of a major or minor. No knowledge of German required. Offered on sufficient demand.

German 341. History of German Literature. Three hours
A chronological survey of German literature with extensive collateral readings. Required of all German majors. *Prerequisite:* Permission of the instructor.

German 361-362. Advanced Grammar, Composition, Three hours

Prerequisite: Permission of the instructor. Offered on sufficient demand.

German 411-412. The German Novel and Short Story. Three hours
The development of the German novel and the Novelle from the seventeenth century to the present. *Prerequisite:* Permission of the instructor. Offered on sufficient demand.

German 421. German Poetry. Three hours
Analysis of selected works from the German poetry of the seventeenth to twentieth centuries. Collateral reading and lectures will provide a survey of the field. *Prerequisite:* Permission of the instructor. Offered on sufficient demand.

German 431-432. The German Theatre. Three hours
Survey of the principal works of the German theatre from Lessing to the present. *Prerequisite:* Permission of the instructor. Offered on sufficient demand.

German 441. Goethe. Three hours
Detailed study of *Faust*. Lectures and assigned readings cover the chief works of Goethe and his principal contemporaries. *Prerequisite:* Permission of the instructor. Offered on sufficient demand.

German 491-492. Honors Program in German.
Maximum of four hours per semester only by permission of Department Head.

German 495-496. Readings in German Literature. Three hours
Open only to students capable of a considerable amount of independent reading. *Prerequisite:* Permission of the instructor.

DIVISION V: RELIGION AND PHILOSOPHY

Mr. Matthews *Mr. Eickhoff* *Mr. Jones*

Courses in this division are designed to acquaint the student with the Judaeo-Christian tradition and the other great religious traditions of mankind and with the great traditions and disciplines of human thought; to deepen his awareness of himself and of the human community; to cultivate his powers of critical examination and constructive reasoning; and to clarify his understanding of the meaning and direction of human existence.

Studies in religion are especially recommended for students of ar history and literature, and for students preparing for Christian vocation: Studies in philosophy are especially recommended for pre-professionc training for such vocations as the Christian ministry, college teaching, lav journalism, creative writing and art, as well as for students of history, liter ture and the sciences.

Pre-ministerial Preparation: The American Association of Theologicc Schools has stated that the college work of students planning to enter th ministry should result in at least the following: 1. Ability to speak and writ English clearly and correctly, to think clearly, and to read at least one foreig language; II. Acquaintance with the world of men and ideas, the world of nc ture, and the world of human affairs; and III. A sense of achievement throug the mastery of fields of study and through honors work or other independer study. The student is expected to become well grounded in English, philosoph and history, and to gain some background in social studies (especially psy chology and sociology), the natural sciences, languages and religion.

1. Religion

Requirements for a Major. The twenty-four hour major, recommende for pre-ministerial students, must include courses 111, 112, 311 and 490, plu Philosophy 491. The thirty hour major may include Philosophy 371.

Requirements for a Minor. Twenty-one semester hours, at least nine c which must be in courses numbered above 300.

Religion 101. Conference Studies. No cred

A study of the books required by the Methodist Church for the loca preacher's license. Required of all recipients of ministerial loan-grant who have not yet obtained the license to preach.

Religion 111. Three hour

Old Testament History, Literature, and Interpretation.

The history of Israel from the earliest times to the Maccabean Age Historical and literary criticism and religious significance of the emer gence of Judaism.

Religion 112. Three hour

New Testament History, Literature, and Interpretation.

Attention to author, date, origin, historical and religious significance Religion 111 recommended.

Religion 121. Primitive Religions. Three hour

Survey of the origins and characteristics of rites, legends and myths c technologically undeveloped societies.

Religion 201-202. Readings in the Greek New Testament. Six hour

An inductive approach to koine Greek, recommended especially fc pre-seminary students. Offered alternate years.

Religion 212. The Old Testament Prophets. Three hour

The nature of prophecy and the prophetic movement in Israel from it beginning with Moses to its close with the book of Jonah. Religion 11 recommended.

eligion 231. The Life and Teachings of Jesus. Three hours
The world in which Jesus was born and an interpretation of his messianic consciousness, personality, activities, and teachings. Religion 112 recommended.

eligion 241. Life and Teachings of Paul. Three hours
The world of Paul, his life, teachings, and significance, using his letters as the primary source. Religion 112 recommended.

eligion 311. Introduction to Christian Thought. Three hours
Examination of traditional and contemporary understanding of the Christian faith, with emphasis on the nature of God and of man; the significance of Christ and the Church; the relation of religion to morality; the meaning of Creation and Redemption; and the interpretation of Human Destiny. *Prerequisite:* 112.

eligion 321. Primitive Religions. Three hours
Same course as Religion 121, but with more independent research. For upperclassmen.

eligion 353. Church History. (Also History 353). Three hours
The origin and development of the Christian Church from its beginnings through the Reformation.

eligion 355. World Religions. Three hours
A descriptive account of the faith and practices of present-day world religions, with emphasis on Hinduism, Buddhism, Confucianism, Islam.

eligion 471. Psychology of Religion. (Also Psychology 471). Three hours
The nature and development of religious consciousness, doubt and fear, sin and forgiveness, conversion, belief and faith, prayer, worship, religious behavior, religion and health. *Prerequisite:* Psychology 111.

eligion 472. Sociology of Religion. (Also Sociology 472G).

eligion 490. Seminar in Religion. Three hours
Intensive study on a special subject, with oral and written reports. Possible topics include The Fourth Gospel, Apocalyptic Literature, Pauline Theology, Wisdom Literature, The Apostolic Period. *Prerequisites:* Advanced standing and permission of the instructor.

eligion 495-496. Readings in Religion. Three hours

eligion 497-498H. Honors. (See Philosophy 497-498H). Three hours

2. *Philosophy*

Requirements for a Major. Either a twenty-four or a thirty hour major ay be elected. Religion courses 311 and 355 may in some cases be included.

Requirements for a Minor. Twenty-one semester hours.

Philosophy 201. Introduction to Philosophy. Three hour
Both a study of the nature of philosophy, its aims, problems, and meth ods, and an exercise in philosophizing in which the student clarifie constructively and evaluates critically his own and other understanding of life.

Philosophy 202. Logic. Three hour
Cultivation of rational acuity through an examination of the procedure and limits of rational discourse.

Philosophy 291. Philosophy of Religion. Three hour
An introduction to basic modern concepts, issues, and methods in th philosophical examination of religion.

Philosophy 302. Aesthetics. Three hour
Exploration and cultivation of the sense of beauty through an examinatio of the nature of artistic production and of the grounds of aesthetic criti cism and judgment, including a survey of aesthetic theory. Alternate years.

Philosophy 371. Ethics. Three hour
Cultivation of moral awareness through an examination of human activity individual and social, with particular reference to the grounds of ethica decision and evaluation. The major theories are examined and relate to concrete personal and social problems.

Philosophy 391. Three hour
History of Western Philosophy I: Ancient and Medieval.
Philosophical thinking in its cultural context, from its birth through th classical and medieval eras.

Philosophy 392. History of Western Philosophy II: Modern. Three hour
The rise and development of modern culture and its thought-forms through the nineteenth century.

Philosophy 431. Contemporary Philosophy. Three hour
Twentieth century western thinking and its nineteenth century back grounds, with particular reference to pragmatism, phenomenology, ex istentialism, the analytical movement and dialectical materialism.

Philosophy 451. Political Theory and Philosophy. Three hour
(Also Political Science 451)
The nature, scope, methods, development and interrelationships of politi cal and philosophical thought. Analysis of traditional and contemporar theories.

Philosophy 490. Seminar in Philosophy. Three hour
Intensive study of a special topic such as Epistemology, Metaphysics Plato, Kant. Permission of instructor required.

Philosophy 491. Philosophy of Religion. Three hou
Same course as Philosophy 291, but with additional independent researc

Philosophy 495-496. Readings in Philosophy. Three hou

Philosophy 497-498H. Honors. Three hou

DIVISION VI: NATURAL SCIENCES

1. Biology *2. Chemistry* *3. General Science*

4. Home Economics *5. Mathematics* *6. Physics*

Requirements for an Area. A teaching area in Science shall consist of a minimum of 48 semester hours distributed according to one or two plans: (1) at least 18 hours in Biology, at least 8 hours each in Physics and Chemistry, and at least 7 hours in Mathematics. (2) At least 12 hours each in Physics and Chemistry and at least 11 hours in Mathematics. Science 111 and 112 will not count towards the 48 hour area.

Agriculture. The first two years of the Biology major program will form the basis for future specialization in the field of Agriculture and its related divisions.

Pharmacy. The first two years of the Biology major program are acceptable at most schools of Pharmacy toward the completion of the professional curriculum. Trigonometry should be substituted for Embryology.

Premedical, predental, preoptometric and preveterinary programs

Most medical, dental, optometry and veterinary schools have the following minimum requirements for admission: two years of chemistry, including one year of organic, one year of physics, one year of biology, one year of English, and one year of mathematics. Calculus is suggested in some cases and at least one medical school requires this as a prerequisite.

It is recommended that a student who plans to enter the medical, dental, optometry, or veterinary profession take general chemistry, college algebra, English 111 and 112, and at least one course in biology the freshman year. Most pre-professional students in the medical sciences major in biology or chemistry and minor in one of these or in physics or mathematics.

Regardless of the program selected the student is expected to confer with the Chairman of the Science Division immediately upon electing medicine, dentistry, optometry or veterinary medicine as a career, or upon deciding to do graduate work in biology.

COMBINED DEGREE IN MEDICINE

The Bachelor of Arts degree will be granted to students who have completed three years of work at Union College and one year of work at the University of Louisville Medical School, with the provisions stated in the section on Combined Degrees (p. 18).

A suggested curriculum for the three year programs at Union College is as follows:

Freshman Year	*Sem. Hrs.*	*Sophomore Year*	*Sem. Hrs.*
English 111-112	6	Humanities	3
Botany or Zoology	4	Foreign Language	6
Humanities	3	Physics	8

Trigonometry	3
College Algebra	4
General Chemistry	8
Social Science	3
Quantitative Analysis (Volumetric)	
Zoology or Botany	
Comparative Anatomy	
Elective	

Junior Year	*Sem. Hrs.*
Foreign Language	6
Humanities	6
Social Science	6
Organic Chemistry	8
Embryology or Genetics	4
Elective	3

COMBINED DEGREE IN MEDICAL TECHNOLOGY

The Bachelor of Arts degree will be granted to students who have com pleted three years of work at Union College including foreign language ar one year of work leading to the Certificate in Medical Technology at the Ur versity of Louisville School of Medicine. The course in Medical Technology the University of Louisville is approved by the Council on Medical Educatio and Hospitals.

The advantages of the Bachelor of Arts degree in addition to the Certif cate in Medical Technology are numerous. Many technicians have discovere that additional work would be of benefit to them in moving ahead in th profession, and the possession of the Bachelor of Arts degree has enable them to go directly into a graduate school. Some hospitals give preferen to applicants with the Bachelor of Arts degree when selecting personnel work in the field of Medical Technology.

A suggested curriculum for the three year program at Union Colleg is as follows:

Freshman Year	*Sem. Hrs.*
English 111-112	6
Biology	8
General Chemistry	8
Social Science	6
Elective	3

Sophomore Year	*Se Hr*
Humanities	
Foreign Language	
Quantitative Analysis	
Biology	
Elective	

Junior Year	*Sem. Hrs.*
Foreign Language	6
Humanities	3
Qualitative Analysis or Organic Chemistry	4
Bacteriology	4
Electives	3
Social Science Elective	3
College Algebra	4
Elective	3

COMBINED DEGREE IN ENGINEERING

A cooperative "Three-Two plan" has been worked out with both the University of Kentucky and the School of Engineering of the University of Southern California in which the student attends Union College for three years, pursuing certain pre-engineering courses in addition to a solid program in liberal arts. At the end of the three years, upon the recommendation of Union College, he enters either of the cooperating universities as a junior and in two additional years completes all the requirements for the B.S. degree in engineering. Both A.B. from Union College and B.S. in engineering degrees from the cooperating university are awarded at the end of the fifth year. A suggested curriculum at Union College follows:

Freshman Year	*Sem. Hrs.*	*Sophomore Year*	*Sem. Hrs.*
English 111-112	6	Foreign Language	6
Foreign Language	6	Mathematics	8
Chemistry	8	Physics	8
Mathematics	7	Social Science	2
Social Science	6	Electives **	8

Junior Year	*Sem. Hrs.*
Mathematics	10
Physics	8
Electives	14

In his studies at the cooperating university the student should take the additional courses he requires for a total number of semester hours of 24 in physics, 30 in mathematics, or 30 in chemistry to achieve a major in either of these disciplines. When a student elects the "Three-Two plan" he should be assisted constantly by his adviser.

In addition, Union College is prepared to offer a two year program after which the student may transfer to the State University for the completion of the engineering curriculum. The student should plan to transfer to the University in the summer following the completion of the second year at Union College. By following this procedure the student should complete the curriculum for an engineering degree with a total program at the two schools of nine semesters and one summer term after high school. A suggested program for the two year curriculum is as follows:

Freshman Year	*Sem. Hrs.*	*Sophomore Year*	*Sem. Hrs.*
English 111-112	6	Social Science	3
Social Science	3	Physics	8
College Algebra	4	Analytics and Calculus	8
Trigonometry	3	Humanities	6
Solid Geometry*	2	Electives	6
General Chemistry	8		
Electives	4		

* If the student comes to Union College with credit in Solid Geometry from high school, this course is not required.

** Electives which are of value to the engineering student are as follows: Business English, Elementary Accounting, Public Speaking, Principles of Economics.

1. Biology

Mr. Gilbert Mr. Cohenour Mr. Kringen

Requirements For a Major. Thirty semester hours which should include Biology 231, 232, 233, 351, and 471G, or 413 and 431. Majors in Biology take Chemistry 111, 112, one other course in Chemistry, Mathematics 111-112, and Physics 111-112.

Requirements For a Minor. Twenty-one semester hours which should include Biology 231 and Biology 232.

Biology 231. General Zoology. (3.4). Five hours

A study of the different phyla of the invertebrate group with special attention given to characteristic structures, life histories, and economic importance. Typical representatives from each phylum are considered in the laboratory.

Biology 232. General Botany. (2.4). Four hours

A study of the structure, function, and life relationships of the flowering plants. Morphology is emphasized, and aspects of physiology such as photosynthesis, respiration, plant hormones, and vitamins are discussed. Examples are given to show how these processes and substances affect growth and development.

Biology 233. Cryptogamic Botany. (2.4). Four hours

A study of the algae, fungi, mosses, and ferns with special attention given to characteristics, life histories, phylogenetic relationships, and economic importance. Typical representatives from phylum are considered in the laboratory.

Biology 321. Field Biology. Six hours

Designed to acquaint the student with animals in their natural habitats and with the local species of plants found in the Appalachian region. The ecology of the living flora and fauna as a unit is studied. This course is given at the MACCI biological field station, Norris Lake, Tenn. *Prerequisite:* One course in biology. Summer.

Biology 351. Comparative Vertebrate Anatomy. (2.4). Four hours

A detailed study of the structure of higher vertebrates with special reference to the form and development of systems and organs. *Prerequisite:* Biology 231 or equivalent. Second semester.

Biology 382. Entomology. (3.2). Four hours

The structure, habits, and classifications of insects and arthropods.

Biology 413. Human Physiology. (3.2). Four hours

To familiarize the student with the structure and function of the various organ systems of the human body. For comparison, consideration is given to certain animals at various points in the course. Anatomical studies and physiological experiments in the laboratory. *Prerequisite:* Biology 231 and 351. Second semester.

Biology 421. Animal Parasitology. Three hours

The identification and life histories of representative parasitic protozoa and helminths emphasizing the hostparasite relationships on human parasites.

Biology 431. Embryology. (2.4). Four hours
A review of the process of germ cell development, fertilization and cleavage in both invertebrates and vertebrates, followed by a detailed comparative study of the development of the frog, chick, pig, and man. Living material of the frog and chick, and whole mounts and serial sections of frog, chick, and pig are used for study of germ layer formation, histogenesis, and organogenesis. Required for pre-medical students. *Prerequisite:* Biology 231 and 351.

Biology 461. Genetics. (3.2). Four hours
The fundamental principles of heredity applied to plants, animals, and man. Practical application of these principles to the improvement of cultivated plants and domestic animals will be studied; also their role in the course of organic evolution. *Prerequisite:* Science 111 or equivalent.

Biology 471G. Microbiology. (2.4). Four hours
The morphology, physiology, and taxonomy of bacterial and other microorganisms, including brief treatment of algae, protozoa, molds, rickettsiae, viruses, and yeasts. Their roles in industry; the soil, sewage, water, and air; foods; and disease are considered. Cultivation and observation techniques in laboratory.

Biology 481G. Epidemiology: General Principles. (3.2) Four hours
The approach in epidemiology is to acquaint the student with the general principles of epidemiology dealing with the agent, host and environmental factors, their interrelationships, and their influence on epidemic disease in the urban society.

Biology 495-496. Special Problems in Biology. Four hours
An introduction to the methods of scientific research for the advanced student who has demonstrated ability to do independent work in biology. It will consist of a particular problem decided upon after consultation with the instructor. A typewritten and bound report-thesis may be required. An examination may or may not be given, depending on the nature of the problem. *Prerequisite:* Permission of the head of the department.

Biology 592. Environmental Workshop. Three hours
Techniques for lesson planning in the environmental sciences for in-service teachers, including field trips and related seminars.

Biology 595-596. Research-Investigations in Biology. Four hours
An independent research problem in which the student must demonstrate his ability to employ the scientific method in carrying out an original scientific investigation. A typewritten and bound manuscript will be required. An examination may or may not be given, depending on the nature of the problem selected. *Prerequisite:* Permission of the instructor and approval of the head of the department.

2. Chemistry

Mr. Jankovics *Mr. Myers*

The objective of the Department of Chemistry is the development in students of (1) understanding of the fundamental principles of chemical science;

(2) the ability to apply these principles in both technical and everyday practic ways: (3) the scientific attitude of mind and scientific method of problem-solvin (4) though less tangible, the broader and deeper appreciations and interes related to the role of chemistry in modern life; and (5) the necessary found tion for vocations based directly or indirectly on chemical science.

Requirements for a Major. Thirty semester hours. A student must tak the following courses: Chemistry 111-112, 211-212, 311-312, 411-412. Th major is required to take Physics 211-212 and Mathematics 241-242.

For those desiring to concentrate more heavily in the field of chemistr in order to meet requirements of graduate schools and standards set by th American Chemical Society, it is suggested the major be expanded to includ some of the following: Chemistry 402, 431, 491, 495-496. Those embarking o this course should obtain approval of the Head of the Department at the be ginning of the second year.

Requirements for a Minor. Twenty-one semester hours which should in clude 111-112.

Chemistry 111-112. General Chemistry. (3.3) Four hour
Designed to develop the cultural values of the stated objectives abov and to serve as a foundation for later Chemistry courses. Laborator work designed to support and elaborate classroom discussions.

Chemistry 211. Qualitative and Instrumental Analysis. (2.6). Four hour
A study of homogeneous and heterogeneous equilibria as applied t analytical chemistry. Some related aspects of modern instrumental meth ods are also described. The laboratory work consists of semi-micro quali tative analysis and some instrumental measurements. *Prerequisite:* Chem istry 112.

Chemistry 212. Quantitative Analysis. (2.6). Four hour
A study of important volumetric and gravimetric analyses presente from a modern theoretical standpoint. Also an introduction to the study o advanced methods of analysis including some newer instrumentatio techniques. *Prerequisite:* Chemistry 112.

Chemistry 311-312. Organic Chemistry. (3.3). Four hour
A thorough course in the chemistry of organic compounds. Unitize laboratory work designed to illustrate the basic principles of organi chemistry. *Prerequisite:* Chemistry 112.

Chemistry 402. Qualitative Organic Chemistry. (2.6). Four hour
Course presents methods of identification of individual organic compound and separation and identification of mixtures of complex organic com pounds. *Prerequisite:* Chemistry 311.

Chemistry 411-412. Physical Chemistry. (3.3). Four hour
A study of theoretical chemistry as applied to the structure of atom and molecules; relationships between structure and chemical and physica properties; thermodynamics; kinetics; radiochemistry. *Prerequisite:* Math ematics 241, Physics 211-212.

Chemistry 431. Biochemistry. (3.3). Four hours
A study of carbohydrates, proteins, lipids, vitamins, hormones and enzymes as related to plant and animal life. Included is a discussion of RNA, DNA, genetic code system, intermediary metabolism and integrated metabolism. *Prerequisite:* Chemistry 311 (Chemistry 212, 411. Chemistry 411 may be taken simultaneously).

Chemistry 491. Chemical and Scientific Literature. (1.0). One hour
An introduction to the literature of chemistry and other sciences is gained by library research, abstract writing, and specific library problems encountered in chemistry, biology, mathematics, and physics. Should be followed by courses in sciences of the 495 series. Open to seniors and graduate students and to juniors approved by the staff.

Chemistry 495-496. Special Problems in Chemistry. Four hours
This is an introduction to the methods of scientific research. The course is designed for the advanced student who has demonstrated ability to do independent work in Chemistry. It will consist of a particular problem decided upon after consultation with the instructor. Upon conclusion of the work a typewritten and bound report-thesis may be required. An examination may or may not be given, depending on the nature of the problem. *Prerequisite:* Permission of the head of the department.

3. *General Science*

Mr. Gilbert *Mr. Carter* *Mr. Kringen*

Neither a major nor a minor is offered.

Science 111. Biological Science. (3.2). Four hours
An introductory course that deals with fundamental facts and processes of plant and animal life. Careful observation and critical comparison and correlation of such processes as metabolism, growth, reproduction, and heredity are emphasized. The laboratory exercises, illustrative of biological principles, stress thoroughness in dissection and interpretation. This course does not apply as credit on a major in Biology.

Science 112. Physical Science. (3.2). Four hours
An introductory course that deals with the physical sciences. Including materials from astronomy, chemistry, geology, mathematics, and physics, a thorough integration of these subjects is attempted in order to interpret man's relationship to the phenomena in the various physical sciences.

Science 300. Man and His Environment. Four hours
A presentation of the unified nature of the problems in population, resources, and environment which confront man today.

Science 594. Aerospace Workshop. Three hours
A workshop for elementary school teachers offered during the summer session. It is conducted by the Graduate School in cooperation with the National Aeronautics and Space Administration. Lectures and demonstrations will be given by NASA Space Scientists and Astronauts. Topics covered in science that can be applied to the new problems of space include: astronomy, physics, chemistry, earth science, biology, applications of information, audio-visual aids, teaching methods and demonstration. Each student is required to develop a teaching unit on space science suitable for use in the grade or subject he teaches.

4. Home Economics

Miss Lay

The curriculum is in general home economics with no specialization within the field. The first two years will be accepted by certain institutions as two years toward the Smith-Hughes Program but the four-year program does not provide certification for teaching in a Vocational Home Economics Department. Individual courses may be selected by student majoring in other departments.

Requirements for a Major. Thirty semester hours and Chemistry 111 and 112.

Requirements for a Minor. Twenty-one semester hours.

SUGGESTED FOUR YEAR HOME ECONOMICS PROGRAM

Freshman Year	*Sem. Hrs.*
English 111-112	6
Social Science	6
Science 111	4
Home Economics 171-172	7
Psychology 111	3
Humanities	3

Sophomore Year	*Sem. Hrs.*
Chemistry 111-112	8
Humanities	6
Social Science	3
Intro. to Education	3
Home Economics 211-212	6
Home Economics 271	3
Home Economics 201	3

Junior Year	*Sem. Hrs.*
Home Economics 331	3
Home Economics 391	3
Home Economics 451	3
Home Economics 341	3
Humanities	9
Psychology 351	3
Health 280	3
Elective (for minor)	6

Senior Year	*Sem. Hrs.*
Home Economics 401	3
Methods and Materials in Secondary School	4
Student Teaching	10
Home Economics 431	2
Elective (for minor)	15

Home Economics 171. Elementary Foods. (2.4). Four hours
Elementary principles of food preparation; analysis of basic recipes; developing techniques in the kitchen.

Home Economics 172. Meal Planning and Serving. (1.4). Three hours
Selecting, purchasing, preparing, and serving meals for various occasions. *Prerequisite:* Home Economics 171.

Home Economics 201, 202. Fundamentals of Design.
(See Art 201, 202).

Home Economics 211. Elementary Clothing. (0.6). Three hours
Selection of designs and fabrics; use of commercial patterns; technique in fundamental construction process in making simple garments; use of machine and attachments.

Home Economics 212. Advanced Clothing. (0.6). Three hours
Design in clothing and tailoring; construction of a tailored suit and a dinner dress. *Prerequisite:* Home Economics 211 or equivalent.

Home Economics 271. Marriage and the Family.
(See Sociology 271).

Home Economics 280. Personal and Community Health.
(See Health 280).

Home Economics 331. Family Health and Home Nursing. Three hours
The factors affecting health; practical work in administering care to the sick; signs and prevention of illness. Women only.

Home Economics 341. Three hours
Home Management and Family Relationships.
Philosophy and principles of home management. Study of the mechanics of time, energy, and money management; personal development, and social and family relationships.

Home Economics 351. Human Growth and Development.
(See Psychology 351).

Home Economics 355. Children's Literature. (See English 355).

Home Economics 382. Consumer Economics. (See Economics 382).

Home Economics 391. Principles of Nutrition. Three hours
Diet problems; study of nutrients and their relationship to health; special problem in the field of nutrition required by each student. First and second semesters.

Home Economics 401. Textiles. Three hours
Fibers, yarns, weaves, color, and finishes; the use of materials in the home and for clothing; tests for various groups of fibers; observation trips.

Home Economics 431-432. Two hours
Home Management and Family Relationships Laboratory.
Each student is limited to four hours credit. A residence period in the Home Management House is required of seniors majoring in home economics. Experience in the application of principles presented in other courses. *Prerequisite:* Home Economics 171 or permission of instructor.

Home Economics 451. House Planning and Furnishing. (2.2). Three hours
Architecture; house plans; building materials; landscaping; planning the interior of the house; observation trips. *Prerequisite:* Art 141 or 142. Second semester.

Home Economics 495-496. Problems in Home Economics. Three hours
The student selects a problem and works under the supervision of the instructor. Designed for the advanced student.

5. Mathematics

Mr. Carter *Mr. Caine* *Mr. Santaram*

The objectives of the department are the development of formal manipulative skills, the ability to apply techniques, and the education of the student in the nature of mathematics as a logical structure.

Requirements for a Major. Thirty semester hours consisting of mathematic courses numbered 241 and above, Physics 211 and 212.

Requirements for a Minor. Twenty-one semester hours consisting of math ematics courses numbered 203 and above.

Mathematics 111. College Algebra. Four hou
Review of fundamentals of algebra, linear functions, exponents and rad cals, quadratic equations, ratio, progressions, probability, binomial the orem, mathematical induction, inequalities, determinants, theory c equations. Remedial laboratory sections without credit are required c those whose work is unsatisfactory. *Prerequisite:* Satisfactory score on pre-test.

Mathematics 112. Plane Trigonometry. Three hou
The trigonometric functions, use of tables, solution of right and obliqu triangles by use of logarithms, radian measure, fundamental identities graphical representation of trigonometric functions, inverse functions solutions of equations. *Prerequisites:* Mathematics 111 and plane gec metry.

Mathematics 203-204. Structure of the Number Systems. Three hour
Historical development of the numeration systems, the structure of th counting numbers, the integers, rationals, irrationals, and reals in se theoretic language and in a manner showing the inter-relationship be tween theory and computational techniques. Some topics in informc geometry are included.

Mathematics 241. Introduction to Calculus and Analytic Geometry. Four hou
Slopes and rates of change, the inverse of differentiation, differentiatio of algebraic and trigonometric functions, differentials and anti-derivc tives. *Prerequisite:* Mathematics 111 and 112.

Mathematics 242. Intermediate Calculus and Analytic Geometry. Four hou
Additional topics in analytic geometry, polar coordinates, logarithmic exponential and hyperbolic functions, the definite integral and technique of integration, and applications, vectors, *Prerequisites:* Mathematics 10 (or high school solid geometry) and Mathematics 241.

Mathematics 331. Introduction to Linear Algebra. Three hou
Elementary set theory, translations, composition laws and groups, vecto spaces with applications to geometry. *Prerequisites:* Mathematics 102 111, 112, and the permission of the instructor.

Mathematics 332. Linear Algebra. Three hou
Linear systems, dimensions and bases of a vector space, linear mappings Euclidean and unitary vector spaces, determinants, reduction of quadrati polynomials. *Prerequisite:* Mathematics 331.

Mathematics 341. Advanced Calculus and Analytic Geometry. Four hou
Solid analytic geometry, infinite series and Taylor's formula, partial di

ferentiation, multiple integrals, differential equations. *Prerequisite:* Mathematics 242.

Mathematics 382. Probability and Mathematical Statistics. Three hours
(Also Physics 382).
Theoretical probability using point set approach; probability as a frequency ratio; probability for finite sample spaces, conditional probability; joint and continuous distributions; binomial distribution; Baye's theorem; statistical applications of probability; theory of sampling and variance. *Prerequisite:* Mathematics 242, which may be taken concurrently, and permission of the instructor.

Mathematics 401. College Geometry. Three hours
Historical introduction to Euclid's elements, logic, points, lines, planes, real numbers and the ruler axiom, separation in the plane and in space, angles and the protractor axiom, congruence, circles, and spheres. *Prerequisite:* Mathematics 241 and permission of the instructor.

Mathematics 402. Functions of a Complex Variable. Three hours
Complex numbers, analytic functions, elementary functions of a complex variable, Cauchy's formula, Liouville's theorem, Laurent's series, residues, contour integration, conformal mapping, physical applications.

Mathematics 403. Introduction to Analysis I. Three hours
Sets and functions, topological ideas, LUB property, real sequences, continuity, mean value theorems, integration, definite integrals, Taylor's theorems, improper integrals, convergence of infinite series, power series, improper integrals with parameter.

Mathematics 404. Introduction to Analysis II. Three hours
Differentiation, inverse functions, implicit function theorems, applications to Geometry and analysis, differential geometry and vector calculus, integration over curves and surfaces, differential forms, theorems of Green, Gauss, and Stokes, field theory, calculus of variations.

Mathematics 481. Differential Equations. Three hours
Particular solutions, differential equations of first order and degree, applications. *Prerequisite:* Mathematics 341. May be offered in either semester.

Mathematics 495. Tutorial Work in Mathematics. Three hours
Independent work on topics selected to meet the student's needs. For Mathematics majors only. *Prerequisite:* Senior standing and permission of the instructor. May be offered in either semester.

Mathematics 531. Newer Concepts of Mathematics for Elementary Teachers. Three hours
Same course as Math 203, but with additional work required for graduate students.

Mathematics 532. Newer Concepts of Mathematics for Elementary Teachers. Three hours
Same course as Math 204, but with additional work required for graduate students.

6. Physics

Mr. Riesz *Mr. Santaram*

The general objectives of the Physics curriculum are to promote growth relative to: 1. logical reasoning processes; 2. understanding of physical phenomena; 3. proficiency in experimental methods of investigation; and to encourage capable students to consider careers in science.

The specific objectives are to develop computational skills and laboratory techniques and to satisfy requirements for: 1. combined degree in engineering; 2. combined degree in medicine or dentistry; 3. major or minor in fields of science requiring physics; 4. area in science as prescribed by the State Department of Education.

Requirements for a Major. Thirty semester hours consisting of Physics numbered 211 or above. Chemistry 111-112.

Requirements for a Minor. Twenty-one semester hours consisting of Physics numbered 211 or above. Chemistry 111-112.

Physics 111-112. General Physics. (3.2). Four hours
Composition and resolution of forces; rectilinear and curvilinear motion (laws of Newton); conservation of mass-energy and momentum; principles of Pascal and Archimedes; thermometry and ideal-gas laws; conduction, convection and radiation; electricity and magnetism; simple circuits, a.c. and d.c.; measuring instruments; reflection, refraction, dispersion and diffraction of light; transverse and longitudinal waves; vibrating air columns and strings; radioactivity; fission; fusion; selected topics from quantum and relativity theories. *Prerequisites:* Proficiency in high-school mathematics. Mathematics 111 and Mathematics 112, which may be taken concurrently. Satisfies requirement for General Science 112 and all specific requirements except 1.

Physics 211. Mechanics, Heat, Wave Motion, and Sound. (3.2). Four hours
Mechanics of solids, liquids, and gases; laws of thermodynamics; kinetic-molecular theory; vibrating bodies; standing waves; Doppler effect. *Prerequisite:* Mathematics 241, which may be taken concurrently.

Physics 212. Electricity and Magnetism, Light and Nucleonics. (3.2). Four hours
Laws of Coulomb, Faraday, Ampere, Ohm, Joule, and Lenz, electromagnetic theory; lenses, prisms, and mirrors; polarization; photo-electric and Compton effects; nuclear energy; waves and corpuscles; relativistic effects. *Prerequisite:* Physics 211. Satisfies all specific objectives listed.

Physics 311. Heat and Thermodynamics. (3.2). Four hours
Thermometry and Calorimetry; ideal gas laws; changes of state; equations of state; black body radiation; reversible and irreversible processes; laws of thermodynamics; Fourier Series and heat conduction; enthalpy and entrophy; heat engines; adiabatic and isothermal processes; kinetic theory of gases and liquids. *Prerequisites:* Physics 212 and Math. 241, which may be taken concurrently.

Physics 312. Electricity and Magnetism. (3.2). Four hours
Electric charges, forces, fields and potential with associated magnetic

forces and fields; dielectric theory; capacitance, inductance, resonance, oscillation; series, parallel DC and AC circuits; measuring instruments; thermo-devices electromagnets; motor and generator principles; transformers; Maxwell's equations and electromagnetic waves. *Prerequisites:* Physics 212 and Math. 241.

Physics 382. Probability and Mathematical Statistics.
(See Mathematics 382).

Physics 401. Physical Optics. (3.2). Four hours
Electromagnetic spectrum; wave propagation and superposition; standing waves; interference; diffraction; absorption; dispersion; polarization; double refraction; theory of selected optical instruments. *Prerequisites:* Physics 212 and Math. 241.

Physics 410, 411. Theoretical Mechanics. Three hours
Statics, Kinematics and Dynamics of particles and rigid bodies; centroid, moment and product of inertia; laws of motion, force, mass, momentum and impulse; work, power, energy and potential; motion of a particle in uniform and simple radial fields; holonomous mechanical systems and equations of Lagrange and Hamilton. Three hours credit per semester. *Prerequisites:* Physics 212 and Math 241.

Physics 412. Atomic and Nuclear Physics. Three hours
Optical spectra; election distribution; electromagnetic radiation; x-ray spectra; natural and induced radioactivity; isotopes; electron optics, photoelectric phenomena and wave and particle theories; oscilloscope, spectroscope, spectrometer, spectrograph, radiation counters and particle accelerators; fission, fusion and thermonuclear energy. *Prerequisites:* Physics 212 and Math. 241.

Physics 495-496. Three hours
Independent work on topics selected to meet the student's needs. *Prerequisite:* Permission of the instructor. For Physics majors only.

7. Environmental Studies Program

The following guidelines apply to those taking a major with an area of emphasis in environmental studies.

1. Completion of a major of 24-30 semester hours as determined by the faculty of the individual discipline.
2. Completion of 48 semester hours of an area with environmental emphasis.
   a. The following courses must be included within the 48 hours:
      Environmental Studies 100
      Environmental Studies 400
      Biology 241, Ecology
   b. Courses taken in the area can be applied to both the area and general college requirements. These courses are to be selected from a list provided by the Director of Environmental Studies. Except for the major, no more than twelve hours in any one discipline may be

applied to the area; however, additional courses in a discipline mo be taken in the elective hours remaining.

c. Courses in the major field may be applied to the area or to th major but not to both.

d. The division of courses within the area will be as follows:

Hours Required Outside of the Major

Chemistry, Biology and Physics Majors		*All Oth Major*
Physical Sciences Biology, Chemistry Physics	16	24
Social Science and Humanities	24	16
Environmental Studies	8	8
	48	48

3. The student must meet the graduation requirements listed in the Unic College Bulletin (pages 17 and 18 in the 1972-73 edition).

4. Exceptions to the above guidelines can be permitted upon reco mendation of a faculty member from the student's major disciplin the director of the environmental studies program and the Ac demic Dean.

DIVISION VII: SOCIAL SCIENCE

1. Business *2. Economics* *3. Geography* *4. History*
5. Political Science *6. Psychology* *7. Sociology* *8. Social Work*

Requirements for an Area in Social Science. A teaching area in soci science shall consist of a minimum of forty-eight semester hours distribut as follows: 18 semester hours in history, including 6 semester hours in Am ican History, 6 semester hours in European History, a minimum of 6 semes hours each in the following fields—Political Science, Economics,* Sociolo and Geography. The remaining 6 semester hours may be taken as electiv in social science.

1. Business

Miss Milliken *Mr. Hacker* *Mrs. Allen* *Mr. Newport* *Mr. Graham*

OBJECTIVES:

1. To develop skills and knowledge useful for a career in busines
2. To train business teachers and encourage graduate study.
3. To develop an understanding of the place of business in everyd living.

*No Inter-departmental courses accepted.

Requirements for a Major in Accounting. Twenty-four semester hours in Accounting. (Not for teachers).

Requirements for a Major in Business. Thirty semester hours including Business 111 (or equivalent), 112, 191, 192, 411 or 412, and Economics 341 or 342. (Not for teachers).

Requirements for a Major in Business Education. Thirty semester hours including Business 111 (or equivalent), 112, 191, 192, 261, 301 or 302, and Economics 341 or 342. A thirty-six hour major in Business-Secretarial Practice shall include twelve hours in Secretarial Practice courses. A thirty-six hour major in Business-Accounting shall include twelve hours in Accounting. In addition the student must meet the requirements for a Provisional High School Certificate.

Requirements for a Minor in Accounting. Twenty-one semester hours in Accounting.

Requirements for a Minor in Business. Twenty-one semester hours including Business 111, or equivalent, 112, and Business 191.

Requirements for a Minor in Secretarial Practice. Twenty-one semester hours including Business 111, 112 or equivalent. Business 121, 122 and 331.

Requirements for an Area in Business. Forty-eight semester hours, including twenty-four hours in Accounting, six hours in Business Law, and six hours in Economics, including Economics 341 or 342.

Requirements for an Associate of Science Degree. An Associate of Science Degree in Office Practice or in Accounting will be granted to any student who completes two years of college and who meets the following requirements:

1. Sixty-four semester hours, including forty-eight hours in Business subjects.
2. An average scholastic standing of 2.00.
3. No grade below "C" in Business.
4. Completion of one of the following programs.

Office Practice

Course	Hours
Freshman English	6
Typewriting	6
Shorthand	6
Introduction to Business	3
Business Mathematics	3
Accounting	3
Office Machines	3
Business Correspondence	6
Office Practice	3
Office Management	3
Consumer Economics	3
Business Internship	3
Business Electives	6
General Electives	10
Total	64

Accounting

Course	Hours
Freshman English	6
Typewriting	6
Introduction to Business	3
Accounting	15
Business Mathematics	3
Office Machines	3
Data Processing	3
Business Law	3
Business Correspondence	3
Principles of Economics	3
Business Internship	3
Business Electives	3
General Electives	10
Total	64

Adjustments in these programs may be made with the consent of the Head of the Department of Business.

Business 111-112. Typewriting. Three ho
A student with one or more high school units in typewriting cannot t
Business 111 for credit.

Business 121. Elementary Shorthand. Three ho
Principles of Gregg Shorthand, Diamond Jubilee Series.

Business 122. Intermediate Shorthand. Three ho
Continuation of Business 121.

Business 151. Introduction to Business. Three ho
Forms of business ownership, marketing, personnel management, finan
and government regulations.

Business 171. Business Mathematics. Three ho
Fundamental processes involving percentage, interest, discount, payr
taxes, and financial statements. Second semester.

Business 191-192. Principles of Accounting. Three ho
Procedures in journalizing, posting, financial statements, adjusting a
closing entries, controlling accounts, and the voucher system.

Business 221. Advanced Shorthand. Three ho
Emphasis placed on speed in taking dictation and in transcribing not
Prerequisites: Business 122 and 112 or equivalent. Offered on suffici
demand.

Business 261. Office Machines. Three ho
Skill building in the use of common office machines, including the add
machine, calculator, comptometer, posting, duplicator, and keypun
Prerequisite: Business 111 or equivalent.

Business 272. Principles of Marketing. (See Economics 272).

Business 301-302. Business Correspondence. Three ho
Essentials of mailable business correspondence.

Business 311. Salesmanship. Three ho
The salesman's training and his responsibility to the consumer. Sec
semester.

Business 321. Payroll Tax Accounting. Two ho
The Social Security Act and other laws relating to the payment of wa
and salaries, the preparation of state and Federal tax returns, and
use of data processing in payroll accounting. *Prerequisite:* Business 1

Business 331. Office Practice. Three ho
The development of office proficiency. *Prerequisites:* Business 112
equivalent. Offered on sufficient demand.

Business 351. Office Management. Three ho
Office building, equipment, personnel supervision, control of office a
ities.

Business 352. Principles of Management. Three ho
The development of organization plans and policies, development
industrial relations, management operation with emphasis on skills
techniques of leadership.

Business 361. Insurance. Three ho
Insurance contracts and the fields of insurance including fire, mari
casualty, social, disability, life, and property.

Business 362. Principles of Finance. (See Economics 262).

Business 381-382. Data Processing. Three hours
Principles of operation, and general applications of punched card equipment including the IBM 26 printing keypunch, 082 card sorter, 402 accounting machine, 514 reproducing punch, 085 card collator, and the 548 interpreter.

Business 383. Introduction to Computer. Three hours
Study of the use and function of 1130 computer and auxiliary equipment. *Prerequisite:* Business 381.

Business 391. Intermediate Accounting. Four hours
Accounting statements, working capital items, investments, corporate capital, statement analysis. *Prerequisite:* Business 192.

Business 392. Advanced Accounting. Four hours
Accounting for partnerships, joint ventures, installment sales, consignments, home office and branch units, consolidated income statements, balance sheets, and surplus statements. *Prerequisite:* Business 391.

Business 401. Statistics. (See Economics 401).

Business 402. Investments. (See Economics 402).

Business 411-412. Business Law. Three hours
Laws dealing with contracts, agency, employment, bailment, transportation, real and personal property, leases, and bankruptcy.

Business 421. Cost Accounting. Three hours
Methods of assembling cost data for materials, labor, and overhead consumed in a manufacturing enterprise. *Prerequisite:* Business 391. Second semester.

Business 491. Auditing. Three hours
Verification, analysis, and interpretation of accounting records. A complete audit practice set is included. *Prerequisite:* Business 391.

Business 492. Income Tax Accounting. Two hours
Practice in preparing returns for individuals, partnerships, and corporations under the Federal Income Tax law. *Prerequisite:* Business 192.

Business 495-496. Special Problems in Business. Three hours
Independent projects for advanced students. *Prerequisite:* Permission of the head of the department.

The following courses are counted as Business:

Economics 341-342. Principles of Economics.

Economics 382. Consumer Economics.

Economics 392. Money and Banking.

2. Economics

Mr. Newport *Mr. Graham*

Requirements for a Minor in Economics: Twenty-one semester hours, including Economics 341 or 342. No more than six hours of inter-departmental courses may be counted on the minor.

Economics 241. American Economic Development. (See History 241).

Economics 272. Principles of Marketing. Three hours
An analysis of marketing functions and methods relating to producer, middleman, and consumer.

Economics 281. Current Socio-Economic Problems. (See Sociology 281).

Economics 322. Economic Geography. (See Geography 322).

Economics 341-342. Principles of Economics. Thre
Elementary economic theory of prices, national income, product
employment.

Economics 362. Principles of Finance. Thre
Basic principles of finance including monetary and credit syste
demand for funds in the capital market, factors affecting the s
funds, and monetary and credit policies.

Economics 372. Labor Economics. Thre
The labor market, wage and labor problems and theories, devel
of labor unions and wage and labor policies.

Economics 382. Consumer Economics. Thre
(Also Home Economics 382). The role of the consumer in hand
money.

Economics 392. Money and Banking. Thre
National Banking system, nature and functions of money, the imp
of credit, relation of money and credit to prices, bank deposits, an
Prerequisite: Economics 341 or 342. First semester.

Economics 401. Statistics. Thre
A study of the mathematics involved in statistical analysis and
fective use of statistical data in decision making.

Economics 402. Investments. Thre
Public and corporate securities, security markets, investment poli
tax problems. *Prerequisites:* Economics 341 or 342.

3. Geography
Miss Millen

Geography 121. Principles of Geography. Thre
Landmarks of the world as related to climatic patterns. This is t
course in college geography.

Geography 322. Economic Geography. (Also Economics 322). Thre
Regional world geography; a survey of industries; natural and
environments; analysis of economic factors in current internationa

Geography 331. Geography of the United States and Canada. Thre
Geographic regions of United States and Canada; human activitie
these regions; interpretation of these activities in relationship to
environment and cultural background of the peoples.

Geography 332. Geography of Africa. Thre
Physical structure and natural conditions, with their actualities an
tialities of use by man; acute racial antagonisms; problems of
and lack of progress.

Geography 341. Geography of Europe. Thre
Study of today's Europe and Britain and their economic and poli
velopments; natural and human resources of these areas; adj
made by man to conditions; mutual importance of Europe an
States.

Geography 495. Readings in Geography. One to thr

HISTORY AND POLITICAL SCIENCE

Mr. Bradley *Mr. Lindley* *Mr. McCullen*
Mr. Oxendine *Mr. Black*

Objectives: to inform the student of the principal historical developments of the past for the purpose of assisting him to comprehend the conditions of the present world; and to enable him to promote his personal welfare and that of society.

PRE-LAW

Most law schools require applicants to take the national Law School Admission Test either as a primary requirement or for those with minimum academic records. The Association of American Law Schools recommends a program of broad liberal education including work in the following fields: English, history and political science, mathematics, economics, accounting, foreign language, and philosophy. At Union the student should follow the general curriculum (page 17) for his first two years. The last two years may be planned with the aid of his advisor.

4. History

Requirements for a Major in History. Thirty semester hours, of which not more than eighteen hours shall be in United States History. History 490 is required for all majors.

Requirements for a Minor in History. Twenty-one semester hours, of which from six to twelve hours must be in United States History.

History 111. American History. Three hours
American history from colonial beginnings to 1848.

History 112. American History. Three hours
American history from reconstruction to 1928.

History 113. American History. Three hours
History of United States since 1928.

History 221. Kentucky History. Three hours
Kentucky from colonial times to the present.

History 241. Early American Economic History. Three hours
(Also Economics 241).
Economic history of the nation to 1860.

History 283 Three hours
United States Social History Since 1865
The New South; the last frontier; the urban impact on rural life, the church and education; the labor movement and the new immigration; the lost generation; the impact of the depression and World War II on social institutions.

History 321. Latin America. Three hours
The colonial period.

History 322. Latin America. Three hours
Mexico and the Caribbean nations.

History 331. Modern European History. Three hours
The history of Europe from the Renaissance through the era of Metternich.

History 332. Modern European History. Three hours
The history of Europe from the era of Metternich to 1939.

History 341. Modern Britain to 1900. Three hours
History of Britain from 16th Century to 1900.

History 353. Church History. (See Religion 353).

History 361. The American Frontier. Three hours
Western problems of independence; Appalachia to the Mississippi; the Great Plains, Texas and Oregon; the Indian barrier; the fur trade, gold, and longhorns; the role of the Frontier in American democracy.

History 371. Civil War and Reconstruction. Three hours
Ante-bellum problems; the triumph of sectionalism; secession and war; domestic phases of the struggle; the contest by force; the collapse of the Confederacy; reconstruction and its continuing effect.

History 391. United States Constitutional History to 1865. Three hours
Our British heritage; contributions of the Colonial, Revolutionary, and Confederation eras; the constitution and growth of judicial review; factors which have contributed to the evolution of our federal system of government.

History 392. United States Constitutional History Since 1865. Three hours
The impact of the post-bellum, Populist, Progressive, New Deal, and "Warren Court" eras on constitutional development; the effect of active dissident intervention on behalf of civil liberties.

History 411. Medieval Civilization. Three hours
A history of Europe from the collapse of Rome to the Renaissance.

History 433. Imperial Russia. Three hours
Russia's history from the 17th century to 1917.

History 434. The Soviet Union. Three hours
The rise of the Soviet state and its history to the present.

History 442G. Britain in the Twentieth Century. Three hours
The history of Britain since 1900.

History 445G. Contemporary International Problems.
(See Political Science 445 G).

History 450G. Recent European History. Three hours
History of Europe since 1939.

History 451G. The Ancient Near East. Three hours
The civilizations of the Egyptians, Babylonians, Hittites, Assyrians, and Hebrews; the sea kingdom of Crete; the Greek city states versus Persia; classical Greece to 330 B.C.

History 452G. The Roman World. Three hours
The rise and decline of the republic; conquests; the Principate; Augustan Society; imperial despotism and military anarchy; rise of Christianity and the decay of Rome.

History 461G-462G. American Diplomacy. (See Political Science 461G-462G).

History 490G. Seminar in Research. Three hours
Gathering and criticism of data; bibliographies and aids; problems in historiography; composition analysis, and the final monograph. Required of all History Majors.

History 495-496. Specialized Reading in History. Three hours
Designed for seniors majoring or minoring in history. Intensive reading in the field of the individual's special interest.

History 521. American Colonial Culture. Three hours
The background; travel, everyday life, and intellectual pursuits; economic enterprises:—capitalism, commerce, household industries; the laborer and colonial craftsman; and frontier agriculture.

History 531. American Revolutionary Era. Three hours
The background of the Revolution; Continental Congress and the Confederation at work; internal problems and strife; military and naval events; foreign relations; the road to final independence and peace.

History 541. The Jacksonian Era. Three hours
An intensive study of the political diplomatic, economic, and social history of United States from 1828 to 1848; the philosophy of Jacksonian democracy.

History 551. Seminar in the Civil War and Reconstruction Era. Three hours
Independent study and reports on selected topics supplemented with class lectures and discussion.

History 583. Recent American History. Three hours
Selected topics on the nation's history since 1900.

History 595. Advanced Specialized Readings in History. One to three hours

History 599. Thesis. Six hours

5. *Political Science*

Requirements for a Major in Political Science. Thirty semester hours.
Requirements for a Minor in Political Science. Twenty-one semester hours.

Political Science 111. American National Government. Three hours
The structure and function of our national government; political parties and the obligations of the citizen; public administration; the functions of the three branches of national government.

Political Science 212. American State and Local Government. Three hours
The organization of the state government; state government at work; relationships between the states and government at the national level; local government in counties, small towns, and the large municipalities.

Political Science 221. Latin American Politics. Three hours
A survey of the governments and politics of Latin America.

Political Science 241. International Relations. Three hours
Conflicts, international law, diplomatic practices, and the art of negotiation; the forces of anarchy, violence, colonialism, and nationalism; the challenge of Communism, and the defense of democracy; international organizations.

Political Science 322. Government and Politics in Mexico and the Caribbean. Three hours
An analysis of government and political problems in contemporary Mexico and the Caribbean.

Political Science 342. Public Administration. Three hours
The executive branch of our national government at work; the providing of public services; the interaction of policy making and policy execution.

Political Science 351. Political Parties. Three hours
The rise, organization, methods, and place of the major and minor political parties in the history of the nation. An intensive study of political leaders, platforms, political issues, and campaigns to the present time.

Political Science 445G. Contemporary International Problems. Three hours
A study of selected problems in international relations arising from the world changing political, economic, and social forces in western society.

Political Science 461G. American Diplomacy. (Also History 461G). Three hours
A study of American Diplomacy from pre-Revolutionary days to 1898.

Political Science 462G. American Diplomacy. (Also History 462G). Three hours
A study of American Diplomacy in the twentieth century.

Political Science 471. Political Theory and Thought. Three hours
The nature, scope, and methods of political science; development of political thought from ancient to modern times; the philosophy of the ideological variations; the democratic concept of the function of government.

Political Science 481G. Comparative Government. Three hours
Attention is given to the political heritage, governmental structure, national administration, and social institutions of governments which are illustrative of the different types.

Political Science 495-496. Readings in Political Science. One to three hours
A course designed to allow specialized and independent reading in the field of the student's interest. Open only to Seniors.

BEHAVIORAL SCIENCES

Psychology *Sociology* *Social Work*

6. *Psychology*

Mr. Mays *Mr. Martin* *Mr. Elder*

Requirements for a Major: Thirty semester hours.
Requirements for a Minor: Twenty-one semester hours.

Psychology 111. Introduction to Psychology. Three hours
Emphasis on the study of human behavior and the ability of the individual to make adjustments to his environment. First and second semesters.

Psychology 210. Child Development. Four hours
Emphasis on recent child development theories with laboratory experience on a one to one ratio basis.

Psychology 245. Statistics for Behavioral Sciences. Three hours
(See Sociology 245).

Psychology 351. Human Growth and Development. Three hours
Basic concepts for understanding the development of the child and the adolescent. Includes observation. First and second semesters.

Psychology 361. Psychology of Learning. Three hours
Basic concepts and principles of learning with emphasis upon human and animal laboratory studies.

Psychology 401G. Introduction to Counseling and Guidance. Three hours
Educational, sociological, and psychological foundations of counseling and guidance in schools, colleges and related service oriented agencies. Essential counseling and guidance services, policies, practice and procedures.

Psychology 402G. Counseling Theories and Techniques. Three hours
Basic theories, types, and techniques of counseling. Practice in individual and group techniques of interviewing. *Prerequisite:* Psychology 401G (also Education 401G) or permission of the instructor.

Psychology 411G. Educational Psychology. Three hours
Basic concepts related to mental development, appraisal and diagnosis, and learning theory applicable to educational practices.

Psychology 430G. Social Psychology. (Also Sociology 430G). Three hours
Major emphasis is on problems involved in human relations. Designed to help the individual adjust to various groups and to acquaint him with some of the techniques of leadership by which he may help to mold group thought and action.

Psychology 431G. Mental Hygiene. (Also Sociology 431G). Three hours
Factors determining the development of personality in the individual; principles of mental health and problems involved in the dynamics of human adjustment.

Psychology 441G. Measurement and Evaluation.
(See Education 441G).

Psychology 452G. Abnormal Psychology. Three hours
Mental disorder, changing conceptions of normality, the more common forms of mental disorders, their psychological interpretation, and the principles of effective mental hygiene and psycho-therapy.

Psychology 460G. Theories of Personality. Three hours
Nature of personality structure and dynamics. Classical psychoanalysis, social psychological, and stimulus-response theories included.

Psychology 461G. History and Systems of Psychology. Three hours
Origins of psychological thought within science and philosophy, tracing the development of systems and theories within German, British, and American psychology.

Psychology 471. Psychology of Religion. (See Religion 471).

Psychology 495-496. Problems in Psychology. Three hours

Psychology 525. Psychology of Reading. (See Education). Three hours

Psychology 595. Advanced Problems in Psychology. Three hours

7. Sociology

Mr. Eickhoff *Miss Myrick* *Mr. Mosley* *Mrs. Cooper*

Objectives: Courses in the sociology curriculum provide a scientific analysis of social behavior and social organization designed to satisfy the needs of three kinds of students: 1) those who intend to pursue graduate study in sociology leading to professional careers in teaching, research or administration; 2) those who wish to use sociology as background for certain occupations such as social work, journalism, personnel work, the ministry, secondary teaching, business, or governmental service; and 3) those who wish to use work in this department as the focal point in a liberal education.

Requirements for a Major in Sociology: Twenty-four or thirty semester hours, including Sociology 131, 245, 341, and 371. See p. 17 catalog.

Requirements for a Minor in Sociology: Twenty-one semester hours, including Sociology 131.

Sociology 131. Introduction to Sociology. Three hours
(Also Social Work 131).
An introduction to the scientific study of human groups, with particular attention given to modern industrial societies in general and American society in particular. A prerequisite for all higher level courses.

Sociology 221. Introduction to Anthropology. Three hours
A survey of the archaeological and biological history of mankind as it relates to the development of man in his culture, with comparisons drawn between the cultures of primitive people and Western Civilization.

Sociology 245. Statistics for Behavioral Sciences. Three hours
(See Psychology 245).

Sociology 271. Marriage and the Family. Three hours
(Also Home Economics 271.
Background experiences in the lives of young people leading up to courtship and marriage; the establishment and functioning of the home, with related biological and social factors. Emphasis upon changing attitudes

toward family relationships, some of the problems involved, and suggested solutions.

Sociology 281. Current Socio-Economic Problems. Three hours
(Also Economics 281 and Social Work 281).
A sociological analysis of aspects of culture and institutions which are the source of contemporary social problems such as race relations, crime, mental illness, poverty, war, etc. (Formerly Sociology 351).

Sociology 311. Human Ecology. Three hours
Population distribution, growth, and composition, and its relevance to current economic, social, and political problems.

Sociology 341. Methods of Sociological Research. Four hours
(Also Social Work 341).
Techniques of social research, including survey design and the collection, analysis, and interpretation of data. Lecture and Laboratory.

Sociology 342. Research Design. Three hours
Supervised research planning with emphasis on delimiting an area of research; designing instruments, and planning for data collection and analysis. *Prerequisite:* Sociology 341.

Sociology 345. Appalachian Semester Orientation Seminar.
(See Social Work 345).

Sociology 349. Economics and Appalachian Poverty.
(See Social Work 349).

Sociology 350. Appalachian Dialects.
(See Social Work 350).

Sociology 361. Social Welfare as a Social Institution.
(See Social Work 361).

Sociology 371. Theory of Social Organization. Three hours
A survey of modern sociological theories about the structure and function of social institutions, with particular emphasis on socialization, stratification, social change, and relations among institutions.

Sociology 381. Minority Groups. Three hours
(Also Social Work 381).
A social scientific study of the origin and organization of minorities and their effect on society, with particular emphasis on minorities in the United States.

Sociology 421G. Rural and Urban Sociology. Three hours
Comparative and interrelated study of urban and rural life considering physical, institutional, social and economic factors of modern life in cities and in the countryside.

Sociology 422G. The Southern Appalachian Region. Two or three hours
An analysis of the cultural and social characteristics of the Southern Appalachian Mountains, with special emphasis on the socio-economic problems of the region.

Sociology 430G. Social Psychology.
(See Psychology 430G).

Sociology 431G. Personality and Social Adjustment.
(See Psychology 431G).

Sociology 441G. Cultural Anthropology. Three hou
Principles and methods of anthropology applied to modern and primitiv societies. A critical analysis of leading theoretical ideas in the fiel

Sociology 461G. Criminology. Three hou
A theoretical and empirical approach to crime and delinquency. A ge eral survey of juvenile delinquency, corrective institutions, and crim prevention programs.

Sociology 472. Sociology of Religion. Three hou
The scientific study of religion as it relates to the individual, societ and culture.

Sociology 495-496. Problems in Sociology. To be arrange
Designed for advanced students who wish to do independent work on specific problem or to implement a research design in sociology. *Pr requisite:* Permission of instructor.

Sociology 511. Educational Sociology.
(See Education 511).

Sociology 595. Directed Research. To be arrange
Designed for advanced students who wish to design and impleme research on a specific problem in sociology.

8. Social Work

Mr. Mosley *Mrs. Cooper* *Mr. Trauger*

Objectives: To provide a series of educational experiences which wi 1) permit the student to commence with a broad orientation to the field, servi as an entry to beginning social work practice; 2) enhance admission to grad ate school; 3) develop an awareness of participatory democracy for purpos of useful citizen activity.

Requirements: A major will consist of thirty semester hours, includin social work 171, 361, 371, 391, 400 and S.W./Soc. 341.

A minor will consist of twenty-one semester hours, including social wo 171 and 361.

Social Work 111. General Psychology. Three hou
(See Psychology 111).

Social Work 131. Introduction to Sociology. Three hou
(See Sociology 131).

Social Work 171. Fields of Social Work. Three hou
An introduction to Social Work, utilizing agency staff and clientele t develop a philosophy of service.

Social Work 245. Statistics for Behavioral Sciences. Three hou
(See Psychology 245).

Social Work 271. Marriage and the Family. Three hou
(See Sociology 271).

Social Work 281. Current Socio-Economic Problems. Three hou
(See Sociology 281).

Social Work 341. Methods of Sociological Research. Four hou
(See Sociology 341).

Social Work 345. Appalachian Semester Orientation Seminar. Five hours
(Also Sociology 345).
An introduction to the basic social, historical, and cultural characteristics of the Appalachian Region.

Social Work 349. Economics and Appalachian Poverty. Two hours
(Also Sociology 349).
An intensive study of the economic factors related to rural poverty in the Southern Appalachian Region.

Social Work 350. Appalachian Dialects. Three hours
An introduction to linguistics with emphasis on language characteristics of Middle Appalachia.

Social Work 351. Human Growth and Development. Three hours
(See Psychology 351).

Social Work 361. Social Welfare as a Social Institution. Three hours
(Also Sociology 361).
The evolution and application of Social Welfare in today's world.

Social Work 371-372. Social Work Practice. Three to six hours
An understanding of the basic concepts of social work practice—casework, group work, and community organization with some emphasis on administration and the newer interventive methods. Social Work 371 is prerequisitive to 372.

Social Work 381. Minority Groups. Three hours
(See Sociology 381).

Social Work 391-491. Field Experience in Social Work. Three to six hours
Supervised practice experience in agencies, institutions, or with other social systems. Social Work 391 should be taken in conjunction with the Social Work Seminar, application to be made in advance.

Social Work 400. Social Work Seminar. Two hours
Taken in conjunction with Field Experience, to synthesize theoretical and practice considerations.

Social Work 452. Abnormal Psychology. Three hours
Mental disorder, changing conceptions of normality, the more common forms of mental disorders, their psychological interpretation, and the principles of effective mental hygiene and psycho-therapy.

Social Work 461. Criminology. Three hours
(See Sociology 461G).

Social Work 495–496. Problems in Social Work. One to three hours
Individual or group projects relating to specifically identified interests. To be arranged with instructor.

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Ir. James E. Parker, M.D., Louisville, Ky. 40205
ne Rev. Dr. E. Wade Weldon, Hopkinsville, Ky. 42240
Ir. William C. Yancey, M.D., Louisville, Ky. 40214

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B.S., University of Pittsburgh; M. Div., Drew Theological Seminary; S.T.M., Drew Theological Seminary; D.D., Union College; Case Institute of Technology, evening, 1943-45; Western Reserve University, evening, 1945-46; Union Theological Seminary, summers 1948-1949; Zurich University, Switzerland, 1952-53; Tuebingen University, Germany, 1953-54.

Charles C. Saddler, Jr. — Assistant to the President
A.B., Oakland City College; M.A., University of Illinois; Colorado State College of Education, Summer 1950.

onway Boatman — President Emeritus of the College
A.B., M.Div., M.A., D.D., L.H.D.

ACADEMIC AFFAIRS

ndrew R. Eickhoff — Dean of the Faculty
B.S., Loyola College; S.T.B., Boston University; Ph.D., Boston University; Certificate in Ecumenics, University of Geneva, Switzerland, 1955-56.

hn H. Boyd — Dean of the Graduate School, Professor of Education
A.B., Western Kentucky State College; M.A., University of Kentucky; Ed. D., University of Kentucky.

e Dannel McDade — Registrar
B.S., Union College.

BUSINESS AFFAIRS

Laws Parks — Vice President for Business Affairs
B.S., Athens College; George Peabody College, 1945-47; Scarritt College, Summer 1946; University of Kentucky, Summers 1954-56.

'arence H. Chadwell — Bookkeeper and Assistant Treasurer
B.S. in Ed., Union College; Eastern State College, 1960-61.

ildred E. Maggard — Assistant to the Vice President for Business Affairs

Nola M. Williams Assistant to the Bookkeep

Boyd R. Todd Business Manag
A.B., Union College.

Joe C. Hacker Director of Data Processing Cent
Assistant Professor of Busine
B.S. in Ed., Union College; M.A., Eastern Kentucky State College; Workshop in Family Finance, University of Georgia, summer 1962; University of Tennessee, summers 1963, 1964, 1966.

Ronnie D. Callihan Assistant Director of Data Processing Cent
B.S., Union College.

Ruth Hissam Bookstore Operat

Esten P. Parks Post Office Cl

STUDENT AFFAIRS

Robert J. Clement Dean of Students and of M
A.B., Union College; M.A., Union College.

Doris L. Mays Associate Dean of Students and Dean of Wom
B.S., Union College; M.A., University of Kentucky; Eastern Kentucky University, fall 1966; Union College, summer 1970.

Frances Patridge Director of Student Activit
Director of the Student Cen
B.S. in Ed., University of Arkansas; M.A., George Peabody College for Teachers; University of Southern California, summer 1958; Indiana University, summer 1960.

Edward H. Black Assistant Director of the Student Cen
A.B., Union College; M.A., Union College.

H. B. Harris Director of Student Financial
A.B., Morehouse College; University of Missouri School of Social and Community Services, fall, 1966.

Lucille Robbins College Nu
R.N., Nazareth School of Nursing.

Ada King Resident Hall Counse

Maud Reese Resident Hall Counse

COLLEGE RELATIONS AND DEVELOPMENT

Milton H. Townsend Vice President for College Relations and Developm
A.B., Union College; M.A., University of Kentucky.

Conway Boatman — Development Officer

James C. Nelson — Director of Public Information and Development Officer
A.B., Union College; Wright State University, evening, 1968-69; University of Dayton, evening, 1969-70.

J. Rue Wesley — Director of Admissions and Director of Church Relations
A.B., Union College; M.Div., Duke Divinity School.

Beverly R. Alford — Assistant Director of Admissions
B.S., Union College.

Rena A. Myers — Admissions Counselor
A.B., Berea College.

Catherine F. Singer — Director of Alumni Affairs
A.B., Union College; University of Chicago, summer, 1932; Union College, 1934-35; Union College, summers 1936, 1961.

PHYSICAL PLANT MANAGEMENT

Marshall B. Potter — Superintendent of Buildings and Grounds

Eugene Branstutter — Assistant Superintendent of Buildings and Grounds

Williard Sprinkles — Plant Engineer

Carl Webb — Superintendent of Maintenance, Environmental Education Center

THE FACULTY

Education

Charles W. Simms, B.S., M.A., Ph.D. — 420 N. Main Street
Chairman of the Division of Education
Head of the Department of Education and Professor of Education
B.S., Millsaps College; M.A., George Peabody College for Teachers; Ph.D., George Peabody College.

John H. Boyd, A.B., M.A., Ed.D. — 623 N. Main Street
Professor of Education
A.B., Western Kentucky State College; M.A., University of Kentucky; Ed.D., University of Kentucky.

Kathleen Moore, A.B., M.A. — 103 College Park Drive
Associate Professor of Elementary Education
A.B., Mississippi State College for Women; M.A., Teachers College, Columbia University; ibid., summers 1932, 1945; Ohio State University, summer 1940; University of Southern California, summer 1958.

H. Warren Robbins, B.S., M.A., Ed.D. 100 College Park Drive
Professor of Education
Supervisor of Student Teaching
B.S., Eastern Kentucky State College; M.A., George Peabody College for Teachers; Indiana University, summer 1955; University of Kentucky, summer 1956; Ed.D., University of Tennessee 1970.

Gayle Miles, A.B., M.A. 103 College Park Drive
Associate Supervisor of Student Teaching
Assistant Professor of Education
A.B., Union College; M.A., University of Kentucky; Eastern Kentucky State University, summer 1966; University of Kentucky, summer 1971.

Fine Arts

Allan E. Green, B.M., M.M. Bailey Switch
Chairman of the Division of Fine Arts
Associate Professor of Music
B.M., Western Michigan University; M.M., Indiana University. Pupil of Julius Stulberg, David Dawson, Otto Wimmler, in Strings, Wolfgang Vacano, in Conducting; Indiana University, summers 1963, 65, 66, 67, 70, 1969-70 academic year, summer, 1971.

Walter Gunderson, A.A., B.M.E., M.A. 422 North Main Street
Assistant Professor of Music
A.A., Graceland College; B.M.E., Kansas State Teachers College; M.A., University of Iowa.

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A.B., Indiana University; M.A.T., Indiana University.

Patricia Dontchos, B.S., M.A. 330 Catron Avenue
Instructor of Speech and Drama
B.S., University of Nebraska; M.A., University of Nebraska.

Leo Ernest Dontchos, B.S., M.M. 330 Catron Avenue
Assistant Professor of Music
B.S., Ohio State University; M.M., Ohio State University; University of Louisville, summer 1971.

Houston M. Price, B.A., M.M. 410½ N. Main Street
Assistant Professor of Piano and Organ
B.A., University of South Carolina; M.M., University of Illinois. Studied piano with Hugh Williamson, Howard Karp, Soulima Stravinsky and Webster Aitken. Studied organ with Gordon Beaver and Jerald Hamilton. University of Illinois, summers 1967-1968; University of North Carolina, summer 1969.

William W. Campbell, B.M., M.M.E., M.M. 106 Barner Lane
Instructor of Music
B.M. (voice) Texas Wesleyan College; M.M.E., (voice) Southern Methodist University; M.M. (conducting) Southern Methodist University.

Health and Physical Education

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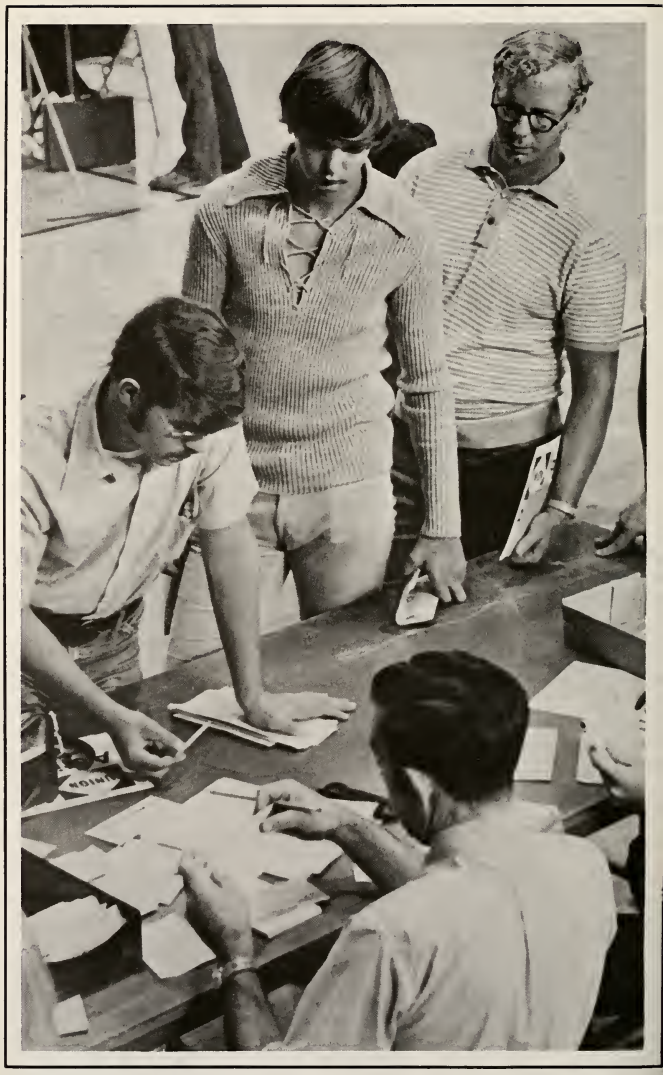

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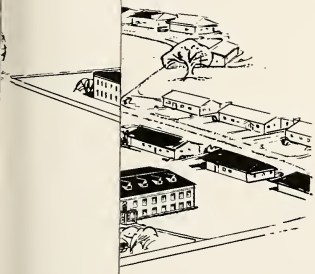

. Baldwin Pla Swimming Pool
. Stevenson s' Apartments
. Classroom
. Library
. Speed Hall
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Provisional High School 6
Terms of Payment 4
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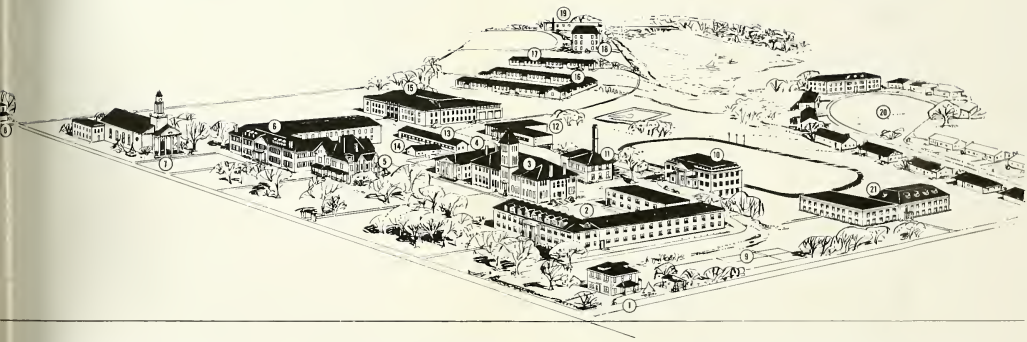
Veterinary Medicine 10
War Orphans Education 3
Washington Semester 2
Workships 4
Work-Study Program 5



1. Baldwin Place, President's Residence
2. Stevenson Hall, Men's Residence
3. Classroom Building
4. Library
5. Speed Hall, Administration Building
6. Pfeiffer Hall, Women's Residence
7. Conway Boatman Chapel — Fine Arts Building
8. Home Economics Building
9. Tennis Courts
10. Dramatic Arts Center
11. Business Department
12. Student Center
13. Chemistry and Physical Science Laboratories
14. Data Processing Center
15. Physical Education Building and Swimming Pool
16. College Courts, Married Students' Apartments
17. College Courts Addition
18. Lakeside Hall, Men's Residence
19. Lakeside Lanes
20. College Park, Faculty Housing
21. Science Building (Under Construction)

UNION COLLEGE
PRO DEO ET HOMINE
1879 IN KENTUCKY

UNION COLLEGE

IN KENTUCKY

1973-1974

DIRECTORY FOR CORRESPONDENCE

Academic Work ..... *Dean of the Faculty*
Admission to the College ..... *Director of Admissions*
Admission to the Graduate School ..... *Dean of the Graduate School*
Alumni Affairs ..... *Alumni Secretary*
Applications for Admission, Catalogues ..... *Director of Admissions*
Charges and Payments of Bills ..... *Business Manager*
Gifts and Bequests ..... *Director of Development*
Housing for Women ..... *Dean of Women*
Personal Welfare, Health of Students, Housing (Men) .... *Dean of Students*
Scholarships, Workships and Loans ..... *Director of Student Aid*
Transcripts—Academic Records ..... *Registrar*

LOCATION AND TELEPHONES

All offices are located in Speed Hall unless otherwise noted. The telephone number for Union College is (606) 546-4151. The extensions listed will contact you with the appropriate office.

President ..... Extension 111
Dean of the Faculty ..... Extension 124
Dean of the Graduate School ..... Extension 112
Business Manager and Treasurer ..... Extension 116
Dean of Students ..... Extension 118
Dean of Women . . . Pfeiffer Hall ..... Extension 141
Director of Public Information ..... Extension 110
Director of Admissions ..... Extension 117
Director of Development ..... Extension 195
Director of Student Aid ..... Extension 171
Registrar ..... Extension 114

Vol. XXXV UNION COLLEGE BULLETIN No. 1
March, 1973

PUBLISHED QUARTERLY
UNION COLLEGE
BARBOURVILLE, KENTUCKY 40906

Entered as second-class matter at the post office at Barbourville, Kentucky, 40906, under Act of Congress, August 24, 1912.

A college with a purpose

Union College, affiliated with The United Methodist Church, is a nonsec-
arian coeducational institution serving students without regard to race,
reed, or color. The college, limited by design to approximately 1000 students,
mphasizes stimulating teaching and a concern for individual needs. Classes
re small, the curriculum is flexible, opportunities for counseling and guid-
nce are abundant, and widespread student involvement in institutional gov-
rnance aids in the development of responsible leadership.

As a liberal arts institution, Union College seeks to help its students
cquire a broad general education which includes an understanding of other
ultures. In addition, the curriculum provides both professional and pre-
rofessional study opportunities in selected fields. Four undergraduate de-
rees are offered, including Bachelor of Science, Bachelor of Arts, Bachelor
f Music, and Associate of Science. The Graduate School curriculum, focusing
n the needs of public school personnel, leads to the Master of Arts in
ducation degree.

Although Union College gives priority to its teaching responsibilities
ather than research and public service, opportunities are provided for stu-
ents to mature and learn through guided research and service experiences.
he campus atmosphere stimulates intellectual curiosity and academic com-
etence, encourages commitment to Christian ideals, and supports the devel-
pment of the spiritual, social and physical resources needed to live creatively
n a changing world.

History of Union College

Union College was founded in 1879 by a group of progressive citizens of Barbourville who formed a stock company and secured the main part of the present campus. In 1880 the first building was formally opened on the site of what is now known as the Classroom Building.

The college was purchased by the Kentucky Conference of the Methodist Episcopal Church in 1886 and Daniel Stevenson, President of Augusta Collegiate Institute at Augusta, Kentucky, was made President of the reorganized institution. During the next administration, the college came into possession of the bequest of Mrs. Fanny Speed. The Fanny Speed Hall and the central heating plant were constructed.

The college department was discontinued in 1908 and for eight years the institution was maintained as a Junior College, an academy, and an elementary school. It became a *bona fide* college again in the Presidency of Ezra T. Franklin, who inaugurated a program of development during which the Memorial Gymnasium and a home for the President were built, and the invested funds of the college were materially increased. In 1927 the College had been accredited by the University of Kentucky as a four-year college of A grade.

President John O. Gross emphasized the improvement of the curriculum and the building of a strong faculty. His ambition was to see Union College fully accredited. In 1931 it was accredited by the University Senate of the Methodist Episcopal Church, and in 1932 full accreditation was realized when it was made a member of the Southern Association of Colleges and Schools. The Board of Regents of the University of the State of New York placed Union College on its accredited list in 1937. During this administration land adjacent to the campus was purchased, a maintenance building was erected, and the financial structure was reorganized.

In Conway Boatman's twenty-one years of leadership the college achieved marked progress in both its educational and plant improvement programs. Seven new buildings were completed and others were enlarged. The curriculum was expanded, endowment funds were increased and a markedly improved program of faculty salaries and benefits was adopted.

Mahlon A. Miller was elected to the presidency in 1959. In 1960 a Master's degree program was introduced and plant expansion continued with the development of College Park, a faculty residential area. The college is now completing a "Program for the Seventies" that embraces a multi-million dollar series of academic and plant improvements.

Location, Campus and Buildings

Union College is located in Barbourville, a residential town of three an a half thousand, on U.S. highway 25E halfway between Lexington, Kentuck and Knoxville, Tennessee. The historic Wilderness Road runs along the easter edge of the campus. The newly completed Cumberland Gap National Park thirty-five miles away. The Doctor Thomas Walker State Park is four mil from the campus and in adjoining counties are the Cumberland Falls Stat Park, the Levi Jackson State Park and the Pine Mountain State Park.

The county seat of Knox County, Barbourville is served by Greyhoun buses enroute to Knoxville, Lexington, Louisville, Cincinnati, and Harlan. Th London-Corbin Airport, approximately thirty-miles from the campus, is serve by the Piedmont Airlines.

On one of the older campuses of the South, Union College is proud o its Georgian colonial buildings. Shaded by overhanging elms, the red bric buildings give the campus a majestic charm of dignity and beauty.

Speed Hall (Administration Building), 1897-1905. A gift from the estate o Mrs. Fanny Speed of Louisville, Ky. Her bequest also partially financed th building of the Classroom Building and Stevenson Hall.

Maintenance Building equipped by a gift from the estate of Robert No ton, New Albany, Indiana.

Classroom Building (formerly the Administration Building), 1907.

Stevenson Hall — Men's Dormitory, 1907. Wings added 1956.

Dramatic Arts Center, 1919.

Baldwin Place, the home of the President, 1925. The gift of Mr. and Mr F. E. Baldwin, Elmira, N.Y.

Abigail E. Weeks Memorial Library, 1941. Furnished by a gift from Mr Abbie E. Stewart.

Veterans Building, 1942. Classrooms and laboratories (to be demolished

Pfeiffer Hall — Women's Dormitory, 1942. Wing added 1960. The origin wing was a gift from the estate of Mr. and Mrs. Henry Pfeiffer of New Yo City.

Home Economics Building (Tye House), 1946.

Conway Boatman Chapel and Fine Arts Building, 1949.

College Courts — Residences for married students, 1954. Expanded i 1964.

Physical Education Building, 1964, including the Swimming Pool, 1957

Lakeside Residence Hall, Men's Dormitory, 1964.

Student Center, 1964.

Campus Religious Center, 1969.

Faculty Residences and other rental property.

Environmental Education Center, Cumberland Gap National Historic Park, Middlesboro, Kentucky 40965.

Science Building, completion scheduled for May, 1973.

Data Processing Center.

College calendar 1973-1974

Summer Session 1973

une 3, Sunday	Dormitories open, 8:00 a.m. First meal served college dining hall, 5:00 p.m.
une 4, Monday	Registration for First Term.
une 5, Tuesday	Classes begin, 7:30 a.m.
une 6, Wednesday	Last date to register for first term and last date for filing application for a degree in August.
une 29, Friday	Last date to drop a course.
uly 6, Friday	First term ends, 4:00 p.m.

Second Term, Summer

uly 9, Monday	Registration for Second Term.
uly 10, Tuesday	Classes begin, 7:30 a.m.
uly 11, Wednesday	Last date to register for second term.
August 3, Friday	Last date to drop a course.
August 10, Friday	Summer Session Commencement, 10:30 a.m. Last meal served in college dining hall, 12:00 noon. Dormitories close, 4:00 p.m.

Fall Term 1973

September 8, Saturday	Faculty Conference.
September 9, Sunday	8:00 a.m., dormitories open for all students. 12:00 noon, first meal served in dining hall. 1:30 p.m., registration for freshmen. 7:30 p.m. Orientation Program for freshmen and transfer students, attendance required.
September 10, Monday	Freshman Orientation (continued)
September 11, Tuesday	8:30 a.m., Registration for all upperclassmen.
September 12, Wednesday	Classes begin, 8:00 a.m.
September 15, Saturday	Registration of in-service teachers for Saturday classes.
September 22, Saturday	11:30 a.m., last day to add a class and apply for graduation for January 1973.
October 19, Friday	Founder's Day Convocation, 10:20 a.m.
November 3, Saturday	Mid-semester vacation begins after last class.
November 4, Sunday	Dormitories close 12:00 noon.
November 5, Monday	Mid-semester grades to be reported to the Registrar by 9:00 a.m.
November 11, Sunday	Dormitories open 12:00 noon. First meal served in college dining hall, 5:00 p.m.
November 12, Monday	Classes resume 8:00 a.m.
November 14, Wednesday	Last day to drop a course or change to elect a course for Cr/NCr.
November 22, Thursday	Thanksgiving Day Holiday.
November 23, Friday	Classes resume 8:00 a.m.
December 17-21	Final Examinations.
December 21, Friday	Christmas Vacation begins after last examination. Last meal served in college dining hall, 5:00 p.m.

December 22, Saturday	Dormitories close 12:00 noon.
January 6, Sunday	Dormitories open 12:00 noon. First meal served in college dining hall, 5:00 p.m.

January Interim 1974

January 7, Monday	Interim Term begins.
February 1, Friday	First Semester ends.

Spring Term 1974

February 2, Saturday	Registration of in-service teachers.
February 4, Monday	Registration for second semester
February 5, Tuesday	Classes begin 8:00 a.m.
February 16, Saturday	Last date to add a class and last date one may file for graduation in May, 1973.
March 30, Saturday	Mid-semester marks to be reported to the Registrar by 12:00 noon. Spring Vacation begins after last class. Last meal served in dining hall, 5:00 p.m.
March 31, Sunday	Dormitories close, 12:00 noon.
April 7, Sunday	Dormitories open, 12:00 noon. First meal served in the college dining hall, 5:00 p.m.
April 8, Monday	Classes resume 8:00 a.m.
April 10, Wednesday	Last day to drop a course and last day to elect a course for Cr/NCr.
May 2, Thursday	Honors Day Program, 10:20 a.m.
May 9, Thursday	Study Day.
May 10, Friday	Final Examinations begin.
May 11, Saturday	Saturday classes meet.
May 18, Saturday	Saturday classes meet.

May 19, Sunday	Ninety-fourth Annual Commencement, 3:00 p.m. Last meal served in colleg dining hall, 12:00 noon.

Summer Session 1974

June 2, Sunday	Dormitories open, 8:00 a.m. First meal served in college dining hall, 5:00 p.m
June 3, Monday	Registration for First Term.
June 4, Tuesday	Classes begin, 7:30 a.m.
June 5, Wednesday	Last date to register for first term and las date for filing application for a degre in August.
June 28, Friday	Last date to drop a course.
July 4, Thursday	First term ends, 4:00 p.m.

Second Term, Summer

July 8, Monday	Registration for Second Term.
July 9, Tuesday	Classes begin, 7:30 a.m.
July 10, Wednesday	Last date to register for second term.
August 2, Friday	Last date to drop a course.
August 9, Friday	Summer Session Commencement, 10:30 a.m. Last meal served in college dining hall, 12:00 noon. Dormitories close, 4:00 p.m.

Academic requirements

Student Load

The normal undergraduate student load is sixteen semester hours per semester. Students who have an average academic standing may register for a maximum of eighteen semester hours credit per semester. Students who attain a "B" average are permitted to earn up to twenty-one semester hours per semester. Exceptions must be approved by the Dean of Faculty.

The January Interim is considered part of the first semester. For the September-December period student semester hour registration should be reduced by four semester hours from the normal undergraduate student load. Exceptions must be approved by the Dean of the Faculty.

The normal graduate student load is two-thirds that of the undergraduate.

The maximum load in each summer term is generally six semester hours. Students whose cumulative grade point average is "B" or better may request permission from the Dean of the Faculty to take seven hours a term. Graduate students may take a maximum load of only six semester hours.

Class Attendance

1. Class attendance is required. Each student is responsible for all work from the first day of class and is expected to attend all meetings of the classes for which he is registered. This is regarded as a matter of individual student responsibility.
2. All faculty members are expected to keep accurate records of class attendance.
3. Class absences due to circumstances beyond the control of the student will be excused by the Dean of the Faculty if request is made within one week of return to the campus. Classwork or tests in these classes must be made up.
4. Class work and tests missed due to the illness of the student can be made up only when the student presents the teacher with an excuse card signed by the College Nurse, within one week after he returns to the campus.
5. Class work and tests missed by a student while he is participating in an activity sponsored by Union College will be made up only when the faculty sponsor of such an activity and the Dean of the Faculty sign the official absence list of students.

6. *A student is not automatically withdrawn when he stops attending a class.* Official withdrawals are made only on forms provided by the Registrar's Office. It is the student's responsibility to complete this form, obtain the signatures needed, and return it to the Registrar's Office.

General Assembly Programs

Full-time students must earn one academic credit for graduation by attending General Assembly Programs (GAP). Sixteen assemblies will equal one semester hour credit. The one mandatory academic credit must be earned within four consecutive semesters' residence at Union College, with all GAP credits accumulated outside this period allowed toward additional academic credit, up to a maximum of four semester hours. No fee is charged for academic credit earned in attending assemblies. Students who attended assemblies before this official program for credit was approved, effective January 28, 1972, may check on their current assembly credit standing. Transfer students with less than 78 hours must earn the one mandatory semester hour of credit by attending assemblies.

Examinations and Reports of Marks

Examinations are held at the close of each semester. Tests are held at such times during each semester as the instructors may determine. Final marks are reported by the instructors to the Registrar. A copy of this report is given to the student, and a copy is sent to his parents. Only the final marks become a part of the permanent record.

The Marking System and Quality Points

Marks are reported in letters as follows:

A.—Represents distinctly superior work, valued at four quality points for each semester hour.

B.—Represents above average work, valued at three quality points for each semester hour.

C.—Represents average work, valued at two quality points for each Semester hour.

*Cr.—Indicates that a course has been passed satisfactorily.

D.—Represents inferior but passing work, valued at one quality point.

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*Students may take two courses per calendar year on a Credit/non-Credit basis. Only two courses may be taken in a single discipline. A student must apply in the Registrar's office for Cr/non-Cr before the last date for withdrawing from a course. When the instructor turns in a letter grade at the end of the semester, a D or above will be recorded as Cr.; an F will not be recorded at all, but the student loses the credit hours. This Cr./non-Cr option encourages students to take courses they otherwise might not attempt. The semester hours earned by Cr. count, but no quality points are earned.

F.—Indicates failure with 0 credits and 0 quality points for each semester hour.

W.—Indicates that a student withdrew during the first nine weeks of the semester.

I.—Indicates that some required work of the course has not been completed.

An "I" received at the end of any semester must be removed before the end of the next semester if the student is enrolled for that term. If the student is not enrolled, the "I" must be removed before the end of the 12-month period following the date on which the "I" was received. If an "I" is not removed within that time limit, it automatically becomes "F".

A student who does not take final examinations at the end of a semester will be given temporary registration in the next semester within the time allowed for registration. If all arrangements for taking final examinations are made within this period, the temporary registration will become a permanent registration. If arrangements for the final examinations are not made, the student's registration will be cancelled. All final examinations for courses which are prerequisite to courses in which the student may be enrolled the next semester, must be taken by the end of the registration period. Failure in any of these prerequisite courses will cancel the student's enrollment in an advanced course.

Quality Point Standing

The quality point standing of a student is determined by dividing the total quality points which he has earned by the total number of semester hours for which he has registered minus the number of hours of Cr. on his record.

Honor Students

Union College recognizes excellent scholarship in two ways — the dean's list and graduation with honors. During the regular semester, full time students who have earned a 3.00 average for the semester are placed on the dean's list. See page 19 for DEGREES WITH DISTINCTION.

Probation

Each student is expected to do "C" work. A student with a standing less than "C" is placed on academic probation for the following semester. He may continue in college on probation an additional semester if his work and character indicate his ability to succeed. *A student who has once been on probation may be dropped at any time his academic standing falls below a "C" average.*

Suspension

Union College will not accept any credits earned while a student is under academic or disciplinary suspension.

Proficiency Examinations

With the consent of a professor, a student may take an examination and if the score is satisfactory, the normal semester hours of credit will be granted. Only credit may be earned by examination; no quality points are earned.

Inter-Departmental Courses

In several departments, provision is made for allowing courses outside the department to be counted on a major or a minor. Such courses are termed Inter-departmental Courses. They are governed by the following regulations:

1. The student's major professor must give permission for enrollment in any Inter-departmental Course which is to be counted on a major or a minor.
2. At the time of registration the student must decide the department in which he wishes a given Inter-departmental Course to be counted.

Extension and Correspondence

Any student planning to graduate from Union College must receive permission from the Registrar to register for correspondence or extension courses. Credits cannot be recorded unless prior arrangements are made.

Students enrolled for a full-time program of study shall defer work on all correspondence and extension courses during the term for which they are registered.

Not more than twelve semester hours of correspondence or extension work done in one academic year will be accepted by the College. Not more than one-fourth of the courses in a major may be done by extension. Not more than thirty-two semester hours of extension and correspondence credit will be accepted toward a degree.

Not more than six semester hours extension or correspondence may be accepted during the Senior year. Students with sixty semester hours or fewer at Union may offer six semester hours non-residence in the last thirty-six; students with sixty-one semester hours or more may offer six semester hours out of the last twenty-four.

Failures or quality point deficiencies in any course done in residence cannot be removed by extension or correspondence work.

Graduating seniors must complete any correspondence work needed for graduation at least three weeks before the date of Commencement.

Graduation Requirements

Requirements for Graduation, Bachelor of Arts Degree, Bachelor of Science Degree, and Bachelor of Music Degree (See Music Section).

The candidates must satisfy the following requirements:

1. Minimum of 128 semester hours. Thirty of the last thirty-six must be earned in residence at Union College. Students who have earned as many as sixty-one semester hours at Union College may graduate

with only eighteen of the last twenty-four hours earned in residence. At least forty semester hours must be in courses numbered 300 and above.

2. Quality point standing of 2.00 overall and at Union. No grade below "C" can be accepted on a major or a minor.
3. Completion of the following General Requirements:
   I. Humanities: 18 semester hours
      Approved courses in art; drama and speech; music; foreign language; religion; philosophy; English language and literature. (other than English 355).
   II. Social Science: 9 semester hours
      history; political science; psychology*; sociology; economics; geography.
   III. Natural Sciences: 8 semester hours
      biology; chemistry; math; physics; physical science.
      a. In I. and II. no more than six hours may be taken in any one discipline. In III. all eight hours may be taken in one discipline.
      b. Hours taken for a first major may not be counted toward the Group Requirements.
      c. Students taking a 48-semester hour area may count the Area hours toward the Group Requirements.
      d. In addition to the above-listed Group Requirements all students must complete six hours of English composition.
4. For the Bachelor of Arts degree, two years of a foreign language offered by the college are required plus other graduation requirements. Students who have had a foreign language in high school should apply to the Head of the Department in regard to placement.

   Students who have had the equivalent of two years of foreign language at another college should see the Head of the Language Division about the requirements in language for graduation from Union.
5. For the Bachelor of Science degree the student must meet all graduation requirements, including a major or area. A foreign language may or may not be required as determined by the individual discipline.
6. Union College offers a Bachelor of Music degree. See Music Section for these requirements.
7. Completion of either:
   a. A major of 24-30 semester hours as determined by the faculty of the individual discipline.
   b. An area of 48 semester hours, the structure of which is determined

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*Not acceptable as a Social Science in the Teacher Education Program.

by the faculty of the Division in which the area requirements ar met.

Majors are offered in accounting, art, biology, business, chemis try, drama, elementary education, English, French, German, healt and physical education, history, home economics (non-vocatior al), mathematics, music, philosophy, physics, political scienc psychology, religion, social work, and sociology.

Areas are offered in business, English, environmental studie health and physical education, music and science.

A student may elect to take a minor of 21 semester hours. M nors are offered in the major fields listed above, plus economic library science, and secretarial practice.

The course requirements for majors, minors, and areas are liste under the respective division of instruction.

At registration, Juniors must indicate the major (and minor elected) field of study on forms furnished by the Registrar. Th Heads of curricula will act as advisors to students majoring in the curricula.

8. At least forty semester hours offered for graduation must be earne in junior and senior courses (300 and above); at least six semeste hours 300 and above earned at Union, must be included in any mino at least nine semester hours 300 and above, earned at Union, must b included in any major; at least twelve semester hours 300 and abov (evenly distributed in the two fields if this is a combined major earned at Union, must be included in a thirty hour major; at leas eighteen semester hours 300 and above, earned at Union, must b included in an area.
9. At registration each senior must specify the tentative date on whic he expects to graduate.
10. Advice in arranging schedules and choosing courses is always give gladly; however, each student is responsible for completing all re quirements.

Associate Degrees

Union College offers Associate of Science degrees in office practice an in accounting. See business curriculum for additional information. Two-yea degree programs are under development in other subject areas.

Combined Degrees

The bachelor degrees may be granted to students who have complete three years of work at Union College and one year of work in an accredite professional school, with the following provisions:

1. The work in the professional school must continue the curriculum in which the student has been enrolled at Union College (prelaw, predenistry, premedicine, etc.)

2. The student must have completed satisfactorily the minimum requirements for three years of pre-professional work at Union College (ninety-six semester hours with a quality-point standing of at least 2.00) and also the general college requirements for graduation, including the foreign language requirement if a B.A. is desired.

3. The student must have completed satisfactorily the minimum requirements for one year of study at the accredited professional school in which he is enrolled. The number of credits at the end of the four years of study must total at least 128 semester hours.

Degrees With Distinction

Honors in scholarship are recorded on the diplomas of the students winning them, and published on the Commencement program. There are three grades of honors designated respectively: *cum laude, magna cum laude,* and *summa cum laude.* These honors are conferred at graduation upon students who satisfy the following conditions of scholarship:

The honor of *cum laude* is awarded to those students who have earned an average standing of 3.0 (B), overall and at Union.

The honor of *magna cum laude* is awarded to those students who have earned an average standing of 3.5 overall and at Union.

The honor of *summa cum laude* is awarded to those students who have earned an average standing of 3.8 overall and at Union.

Students coming from other colleges may receive general honors on completing 61 semester hours of resident study and satisfying the conditions of scholarship prescribed by the faculty, provided they furnish also such evidence of high scholarship in the institution from which they come as may, in the judgment of the faculty, entitle them to become candidates for honors under the regulations.

As a reward for excellence in scholarship and to promote diligence in study and encourage high ideals, the honorary scholastic fraternity of Iota Sigma Nu was founded on May 26, 1936. Membership is open upon election to:

(a) All who have met the requirements for graduation with honors.

(b) All students who have at least 74 hours with a 3.2 quality point standing or 100 hours with a 3.0 quality point standing and who have completed a minimum of two years in residence at Union College.

Planning Curriculum

At the beginning of the junior year, a planned curriculum will be made out by the Registrar's Office at the student's request. This is a binding agreement between the college and student. Once the curriculum has been completed only changes approved by the Registrar are binding on the college.

Students in Appalachian Semester prepare to go into large coal mine.

National Conference on Strip Mining, held at the Union College Environmental Education Center

Special programs

Advanced Placement

Students at Union College who have had superior preparation in certain urricular areas have regularly been placed in advanced course sections. In ertain cases credit will be given by an examination administered by the Head f the Department. The college will also grant academic credit to those in-oming freshmen who have successfully participated in the Advanced Place-nent Program of the College Entrance Examination Board. Interested students hould consult the publication "Advanced Placement Program" of the College oard Advanced Placement Examinations, Box 592, Princeton, N.J., and their igh School Guidance Counselors. Further information on the program may e obtained from the Registrar or the Dean of the Faculty.

Union College also accepts credit earned under the College Level Exam-nation Program (CLEP). Up to thirty hours credit may be earned through xaminations.

Advanced Placement for Veterans

Academic credit is granted to veterans for advanced placement, in ac-ordance with the American Council on Education. Up to 60 semester hours vill be granted, on a combined basis, from College Level Examination Program CLEP) tests, courses approved by the U.S. Armed Forces Institute, credit from ervice schools, correspondence and extension courses. Additional informa-ion on advanced placement for veterans may be obtained from the Dean of he Faculty or Admissions Office.

Pre-Registration

The college makes arrangements for all students to pre-register for cours-s. This is validated and fees paid on the officially scheduled registration date. tudents are able to consult with faculty in their offices and receive more areful guidance with pre-registration rather than the traditional one or two-lay registration procedures. Students may make changes in pre-registration f classes, with no charge, as late as the official registration date. Freshmen nd transfer students are encouraged to register by mail before coming to the ampus. These innovations are intended to assist the students in receiving as nuch guidance as possible, and make registration procedures as simple and onvenient as possible.

January Interim Term

The first semester has been divided into two parts, from Septembe through December, and a separate term and registration for January. The wor completed for January receives four semester hours credit and is required fo all full-time students. During the January Interim term, special projects an courses are offered, both on and off campus. Students may select certai work-study arrangements, foreign study projects, regular courses, and ir dependent study projects. The tentative schedule for the January Interim available in the spring, and final decisions and registration take place abou October 1. The January Interim is intended to provide students with unusu and challenging opportunities to broaden and further their education.

Environmental Studies Program

The college operates a special campus in nearby Cumberland Gap Na tional Historical Park as a unique Environmental Education Center. The cam pus includes 15 buildings and 100 acres within the huge park. On th undergraduate level, the college offers an area in environmental studie which provides the student with a solid background in a specific disciplin and an area of environmental emphasis. A student may select the field of h intellectual interest; for example a student interested in population polic may elect a major in sociology with a geography-environmental studies co mbination, or a student interested in ethical issues relating to our enviror mental value system might combine a major in philosophy with economic and environmental studies. Many discipline combinations are possible, whic can prepare the student for additional study and employment in his chose discipline or in fields such as environmental engineering, city managemen and urban planning. Graduate work, towards a Master of Arts in Educatio degree, is also offered in environmental studies.

Students who wish to earn a 48-semester hour area in environmenta studies should consult with the Dean of the Faculty. All such programs ar individually planned to fit a student's interests and abilities.

College For High School Students

Superior high school students, recommended by their Principals, ar permitted to take certain college freshmen courses in the summer sessior between their junior and senior years in high school and between the graduation and the opening of the regular fall semester. Credit earned in thes courses will be recorded after the student has been regularly admitted t college following his graduation from high school and after he has complete twenty-four semester hours at Union with a "C" average.

School Social Worker

The college offers a curriculum to prepare students for positions a School Social Workers. The Kentucky Department of Education has approve

ne curriculum and graduates receive certification. Further information on his program is available from the social work professor.

Honors Program

Superior students with a minimum grade point average of 3.50 are eligible o apply for honors work in their major fields. Students admitted to Honors andidacy are expected to be capable of creative independent study and esearch. They are subject to general college rules pertaining to the depart-nental major. The immediate supervision of the program will be the respon-ibility of the major department but important changes in the program will e reviewed by the Honors Committee. A student may register for no more han three hours credit for each semester of his senior year. He may be lropped from the Program if in the judgment of his department he is unable o do the work. An Honors Thesis is required as well as an oral examination efore a committee of four professors, including the major professor and two rofessors outside of the department. A copy of the Honors Thesis must be leposited with the college library.

Interdisciplinary Seminar

This is available for superior upperclassmen and graduate students.

Junior Year Abroad

In accordance with the policy of encouraging students to study abroad Jnion College will give academic credit to students who participate in the unior Year in Freiburg or the junior year program of the American College t the University of Poitiers. Interested students should apply to the head of he Department of Languages.

Saturday Classes

To accommodate in-service teachers a limited number of classes are offered on Saturday each semester. Six semester hours of undergraduate or six emester hours of graduate credit may be earned. The requirements for admis-ion are the same as for regular classes. *For further information write to the Director of College Relations, Union College, Barbourville, Kentucky.*

Extension Program

Extension courses will be offered in communities throughout Southeast-ern Kentucky when requested by the school officials or an interested group of prospective students. The college sends a representative to the community o register and counsel with the students. Courses may be on the undergradu-ate or graduate level. They are usually conducted in a public building ap-proved as an adequate classroom.

Summer Session

Union College has two five week summer terms; classes meet five da a week. Students whose cumulative grade average is "B" or better may regist for as many as seven semester hours for each term. Students whose cumu tive grade point average is lower, may take a maximum of six semester hou per summer term. Some classes will be of only three weeks duration.

The work offered in the summer is the same as that offered in the wint semesters. Students may take summer work to accelerate their program complete college requirements. The requirements for admission are the sar as the regular year.

Foreign Study in the Summer

Union College is a member of the Association of Colleges and Univer ties for International Intercultural Studies, Inc., which conducts centers at t University of Graz, Austria; in Africa; and in Hong Kong.

The emphasis of the Graz Center is on Eastern European studies. T basic cost of the 1972 Graz Center seven-week program was $625, plus fare from Washington, D. C., to Graz and return. Air travel through ACU has been approximately $300. The only additional charges will be for mea visas, and personal purchases.

Africa is an exciting area whose importance in world affairs for the pr sent and future cannot be over-estimated. This project will introduce studer to some of the important forces and people that are shaping the future rapidly developing West Africa. Lectures, travel, and study will be conduct in Ghana, Togo, Dahomey, and Nigeria. The comprehensive fee for the Af can Seminar is $1,250 per person. Additional charges will be for visas, imm nizations, and other personal expenses.

Hong Kong is ideally situated for the study of the crucial importance China and Japan. Perched on the doorstep of the People's Republic of Chin and an international city where East and West intermingle every minute, offers students an unmatched opportunity to be involved in the realities East-West confrontation. The basic fee will be $875, plus round-trip trav transportation.

MACCI

Union College is a member of the Mid Appalachia College Council, In a consortium of twelve colleges. This consortium performs many functior but there are two of special academic significance which provide unusu opportunities for Union College students.

1. In the spring of 1968 the first of a series of special honors semina was conducted at the Oak Ridge (Tenn.) Institute of Nuclear Studi for selected MACCI majors in biology, chemistry, and physics. The students, under the direction of the Oak Ridge Institute's professio al staff, conducted experiments with specialized equipment in t

realm of nuclear studies. Arrangements are planned that will provide summer employment at the Institute as research assistants for qualified students of the twelve Council colleges.

2. MACCI owns and operates a Biological Field Center on Norris Lake near LaFollette, Tennessee. Academic study at the Center is carried out during the summer terms, and correlated with courses in the biology department at Union College.

   Nearby mountains and many historic places are easily accessible for excursions and picnics. An organized recreational program on the campus, with swimming pool and tennis courts, is available to students.

Washington Semester

Under an agreement with the American University in Washington, D.C., nion College participates in the Washington Semester Program. Students lected to study under this program spend the fall semester of their junior senior year in Washington and are enrolled at the American University. This ogram affords students an opportunity to continue their college education hile observing the operation of government and international agencies in e nation's capital. Detailed information on the program may be obtained om the Dean of the Faculty or the Head of the Department of History and litical Science. See financial aid section for special Robsion Political Scince Scholarship.

Appalachian Semester

The Appalachian Semester, which is operated twice yearly during the l and spring semesters, is a unique academic program in which mature cond semester sophomore, junior and senior students from Union and m other higher educational institutions throughout the United States vote their full time to studying the Appalachian region — its strengths, oblems and challenges. It carries a total of fifteen hours of academic edit in Sociology, including six hours of field research; or twelve hours of ademic credit in Social work, including six hours of field practicum proved by the Council on Social Work Education, six hours of Social ork electives, plus three hours of credit in Sociology. The program is signed to combine interdisciplinary classroom experiences and on the ene community experiences into a "living learning" situation where total volvement of the student may take place.

Specific courses are offered by members of the Union College faculty; portunities are provided to discuss with local and regional leaders assets d problems of the region; and field trips are scheduled in keeping with minar discussions in order to involve participants on the spot with current gional issues. Following an orientation period of approximately four weeks, udents travel into the area and learn through supervised work experience a service agency or through directed field research experience in the community at large.

Students in the Appalachian Semester enroll in: Sociology/Social Worl 345; Sociology 495 or Social Work 391/392; Sociology/Social Work 349; anc Sociology 422 (See curriculum section for course descriptions). Permission o the program's director is a prerequisite.

Placement Service

The college maintains a placement service for its graduates and othe students who terminate their college training with the idea of seeking em ployment. Superintendents and boards of education as well as other employ ers seeking college trained persons to fill positions are invited to visit th college and interview applicants in whom they are interested. All inquirie from those employers who cannot or prefer not to come to the campus wi receive prompt and courteous attention. The Placement Service is prepare to give full information about any of its applicants.

Student life

Religious Life

Union College is concerned for the religious life of its students. Worship services and other programs dealing with topics related to religion are held in the chapel. In addition, the Willson-Gross lectures and Faith and Life Week are held to give a special emphasis to Christian understanding and growth. During these weeks, outstanding speakers are brought to the campus to discuss important issues confronting the Christian in today's world.

Apart from the campus religious program, each student is expected to worship regularly in the church of his choice. The United Methodist, Baptist, Christian, and Roman Catholic Churches are represented in Barbourville. Active organizations of the Methodist Student Movement, Baptist Student Union, Disciples Student Fellowship, Canterbury Club, and Newman Club are found in the local churches. The college endeavors to cooperate fully with these organizations and actively encourages student participation in their programs.

Social Life

Students are encouraged to accept every legitimate opportunity to engage in social functions. The faculty emphasizes the value growing out of well-directed social activities. Student organizations, the faculty and local churches make desirable contributions to the promotion of social life. The Director of Student Activities is responsible for the initiation and direction of a comprehensive program of student social and recreational activities. All social functions are chaperoned and subject to rules and regulations of the college. Chaperones are approved by the Director of Student Activities.

Concerts of exceptional merit are given throughout the school year by students in the School of Music and by the members of the music faculty, who are all performing artists.

Union College brings to the campus outstanding artists, performers, lecturers and entertainers. Their programs are planned by a Cultural Life Committee and are given during assembly hours and evening performances.

Student Organizations

Students have the opportunity of participating in and developing leadership through a number of campus organizations. Some of these are departmental, some are limited to honor students in their fields, many are open to

all interested students. Each has a faculty sponsor and some include faculty in their membership.

Alpha Phi Omega — A service fraternity designed to promote leadership friendship and service to the campus.

Association of Women Students (A.W.S.) — An organization to make girls dorm life better and let girls actively participate in college functions through their ideas and thoughts.

Beta Chi Alpha — A cultural society, in the form of a sorority, which attempts to bring beauty, culture and art to the campus.

Bridge Club — A club for purpose of duplicate bridge for faculty, students and members of the community.

Black Student Movement — An organization to establish black awareness and concern on the campus.

Canterbury Club — A club that meets weekly for Anglican Worship under the leadership of an Episcopal Priest.

Circle-K International — A service fraternity associated with Kiwanis.

Cosmopolitan Club — An organization fostering brotherhood, international and national understanding among Union College students.

Gamma Beta Phi — A national honor society promoting scholarships leadership and good citizenship at Union College.

Girls Service Sorority — A service sorority designed to assemble Union College women in the spirit of service.

Home Economics Club — Sponsored by the Department of Home Economics and open to any girl interested in the field of home economics.

Iota Mu Gamma — A sorority which promotes service, fellowship and unity.

Iota Sigma Nu — Honorary scholastic fraternity intended to promote high standards of scholarship.

Mu Omega Beta — A fraternity promoting fellowship, unity and service to college community.

Oxford Club — A preministeral discussion group concerned with problems that arise as a minister.

PHT'S — A club for married women who are students or wives of students.

Phi Cwens — A national honor sorority for sophomore women.

Phi Epsilon Alpha — A professional organization open to physical education majors and minors.

Phi Mu Alpha Sinfonia — A national music fraternity fostering mutual welfare and brotherhood of students of music.

Pi Upsilon Beta — A fraternity promoting fellowship, unity and service to college and community.

Playlikers — An organization promoting interest in the theatre.

Pom Poms — An organization to increase school spirit.

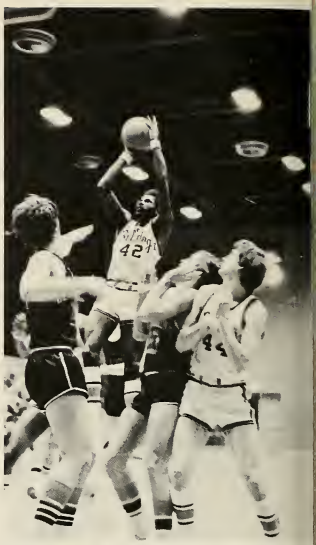
Stespean — An organization which produces the yearbook.

Student Center Board — A programming board providing social and ecreational activities to supplement those planned by other campus agen-ies.

Student National Education Association (SNEA) — A national preprofes-onal organization for men and women planning to pursue teaching as a areer.

The Public Affairs Club — An organization to develop knowledge in all atters concerning public affairs.

Thursday Club — An organization which promotes scholarship, leader-hip, citizenship and develops better communications between the faculty nd students within the English Department.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General information

Athletics

Union College is a member of the Kentucky Intercollegiate Athletic Conference and of the National Association of Intercollegiate Athletics. The college promotes athletics for physical development and as a vital part of the program of extra-curricular activities. The program emphasizes the protection of the best interests of the student athlete. Union teams are noted for "clean" sport and competitive spirit. Sport for fun and character building is fundamental. In intercollegiate competition the college is represented by varsity teams in basketball, track, swimming, tennis, golf, and cross country.

Union College sponsors intramural activities in touch football, basketball, free-throwing, horseshoes, badminton, softball, tennis, volleyball, speedball, and field hockey to have a "sports for all" program. The intramural organization is in general made up of men's and women's independent teams. The program includes both team and individual sports. No college credit is given for intramurals but it is urged that everyone take part.

Publications

Union College Bulletin — An official quarterly bulletin, the January issue of which is the catalog number. This bulletin is sent free on request.

Parents' Quarterly.

Orange and Black — A bi-weekly newspaper published by the student body.

Union College Alumnus. — A quarterly bulletin published by the Alumni office.

Stespean. — The yearbook, published annually by the students of the college under senior editorship.

The Library

The Abigail E. Weeks Memorial Library houses a collection of approximately 60,000 volumes. More than 350 periodicals are regularly received, along with indexing services to facilitate their use. It is also a selective depository for U.S. government publications. The stacks are open for use by all students. Regulations governing the use of library materials are available in the library and freshmen students are given instruction in the use of the facilities. A special collection of more than 300 volumes of new books on environmental concerns provides resource material for environmental courses at the main

campus and at the Environmental Education Center. Included also is a spec Lincoln-Civil War collection containing 500 volumes, extensive files of cli pings, and some artifacts.

Health Service

Union College retains a full-time registered nurse, and a part-time re istered nurse on call at all hours, and maintains free infirmary service for bri illnesses. Since the College does not have facilities for taking care of protrac ed illness, arrangements for hospitalization must be made by the student his parents. When a physician is needed, the patient may request the colle nurse to call one, whose fee is to be paid by the student. In case of emergen the college reserves the right to employ a physician or to have a stude hospitalized without consent of the parents.

During the calendar year, all full-time undergraduate students may secu coverage of an accident and sickness hospitalization plan which is arrange through Mutual of Omaha. All claims under this student insurance plan a placed by the student and the attending physician.

Student Conduct

Each student is expected to conduct himself at all times according to th rules of good society. This obligation includes compliance with Federal, Sta and local laws and adherence to college regulations. As members of a fre society, students are always free to peacefully and lawfully petition f amendment or modification of the various laws as well as the college regul tions. However, the rights of the student body as a whole and the college a an institution of higher education exceed the rights of any individual studer or any group of students. Accordingly, not in an attempt to stifle dissent, bu rather to perpetuate an environment where the student may peacefully pu sue his studies, actions which are disruptive to the normal functions an operations of the college will not be tolerated. Students who are careless i conduct, wasteful of opportunity or unmindful of the rights of others, may b asked to withdraw from the college.

The college has specific regulations with regard to the use of alcoholi beverages, illegal drugs, possession of firearms on campus, and participatio in any form of gambling.

Union College, as a United Methodist-related institution, supports th Church's stand on the use of alcoholic beverages. The following alcoholi beverage regulation is enforced:

No student shall possess or use alcoholic beverages when on colleg property or in college-approved facilities off campus, or when away from th campus representing the college in any way, e.g., a participant in or spectato at a college athletic event or other college function. Any student violating thi regulation may be suspended or expelled.

The sale, possession, or use of stimulant, depressant, narcotic, hallucino genic or other drugs or substances in violation of the Federal, State, or loca

ws is prohibited. Any student who illegally sells, possesses or uses such ·ugs will be subject to criminal prosecution by the appropriate law enforce- ent agencies and also will be subject to disciplinary actions by the college. is the announced policy of Union College to cooperate fully with the arious law enforcement officials in the enforcement of the drug laws as with l other laws. A student's lawful use and possession of certain drugs pursuant a valid prescription from a qualified medical practitioner such as a physi- an, dentist, or optometrist is, of course, permitted. The college Health Serv- es should be consulted with regard to the use of stimulants which are ecessarily illegal drugs since protracted use of these substances may be armful.

Firearms of any kind are forbidden in the residence halls or on the cam- us. All weapons must be registered and stored by a resident fellow. Students ay be expelled for failing to register firearms.

Gambling in any form is strictly forbidden.

Union College expects good housekeeping from all on-campus resident udents. Persons who persist in lack of good housekeeping will be asked to ithdraw from residence on the campus. The college reserves the right to nter, inspect, and search the rooms of students at any time.

Automobiles

At the time of registration for classes all students who possess automo- iles must complete an automobile registration card. Students who wish to ark on campus must pay a $2.00 parking fee and affix a Union College permit. udents must meet minimum insurance requirements as set forth by the ommonwealth of Kentucky.

Admission

Application for Admission—Undergraduate

Each applicant for admission to Union College must present to the Committee on Admission satisfactory evidence of his previous academic training and good character. He should:

1. Write to the Director of Admissions, Union College, Barbourville, Kentucky 40906, for an Application for Admission form.

2. Return his application to the Director of Admissions along with a $15.00 non-refundable admission fee. A refundable $40.00 room reservation deposit may also be included. Upon receiving the Application for Admission, the Admissions Office will mail the applicant a Health Certificate and two reference forms which should be completed and returned at the earliest possible convenience.

3. Have an official transcript of all high school and previous college work mailed directly from these schools to the Office of Admissions. Only those transcripts mailed directly from the school previously attended are considered official.

4. The child of a disabled or deceased veteran, under Public Law 864, should file an application for Program of Education and Training with the Veterans Administration which will issue a Certificate of Eligibility to attend Union College.

The Committee on Admissions will act immediately upon the receipt of all credentials and deposits. Each applicant will be notified in writing promptly thereafter.

Admission Requirements

Union College admits qualified students without regard to race, creed or color.

Applicants who are accepted will be classified as freshmen, as students with advanced standing, as special students, or as graduate students, based upon previous records on file at Union College:

Sophomore—completed 24 semester hours

Junior—completed 56 semester hours

Senior—completed 94 semester hours with at least a "C" standing.

Special—An adult, high school work incomplete, not working toward a degree. A student, with a baccalaureate degree, registered for under-

graduate credit. A person whose situation is somewhat unique and warrants special consideration.

Graduate—must possess a baccalaureate degree

Admission to the Freshman Class—Each applicant should submit a transcript which shows that he has graduated with sixteen units from an accredited high school with at least a "C" average, ranks in the upper two-thirds of his graduating class, and has acceptable scores on SAT or ACT tests. Ten of the units earned must be in academic subjects: three units in English, two units in mathematics, two in social studies, and two in science. Foreign language is recommended. Students failing to meet these standards may be admitted if the Committee on Admissions thinks other factors warrant special consideration. The student who fails to meet these standards, but who is admitted because factors warrant special consideration, may be admitted on probation.

An applicant who has graduated from a non-accredited high school must establish his ability to pursue a college program before he can be recognized as a candidate for a degree. This may be done by completing at least twenty-four semester hours of residence study with not less than a "C" average.

An applicant, not less than 21 years of age, may be admitted on a high school equivalency certificate, based on the General Education Development tests, provided the scores earned are equal to or above the minimum recommended for college entrance by the American Council on Education.

There is open admissions for all veterans and all persons twenty-one years of age and over, who have not attended another institution of higher education, but who have been graduated from an accredited high school.

Freshman Orientation and Registration—Each member of the freshman class must be present at the time scheduled for Freshman Orientation. A program centered around problems peculiar to beginning students will be conducted by the faculty and a group of advanced students. The faculty of the college will be present to aid students in registering and to offer advice in choosing courses.

Admission to Advanced Standing and Transfer Students—Applicants who desire admission with advanced standing must present credits from an accredited community college, junior college, senior college, or university. The transcript of credit must show that the applicant has been honorably dismissed, that the entrance requirements of Union College have been met, and that he has a " C" average. Students failing to attain a "C" average may be considered for admission on probation providing there is evidence that he can attain a 2.0 cumulative grade point average in a reasonable length of time. All credits earned from an accredited community college, junior college, senior college or university can be transferred to Union College. Sixty-seven semester hours is the maximum amount of junior college or community college credit which may be counted toward a degree.

Advanced Placement—Students at Union College who have had superior preparation in certain curricular areas have regularly been placed in advanced course sections. In certain cases credit will be given by an examination administered by the Head of the Department. The college will also grant academic

credit to those incoming freshmen who have successfully participated in the Advanced Placement Program of the College Entrance Examination Board. Interested students should consult the publication "Advanced Placement Program" of the College Board Advanced Placement Examinations, Box 592, Princeton, N.J., and their High School Guidance Counselors. Further information on the program may be obtained from the Registrar or the Dean of the Faculty.

High School Junior Program—Superior high school students, recommended by their Principals, are permitted to take certain college freshman courses in the summer sessions between their junior and senior years in high school and between their graduation and the opening of the regular fall semester. Credit earned in these courses will be recorded after the student has been regularly admitted to college following his graduation from high school and after he has completed twenty-four semester hours at Union with a "C" average.

Veterans Affairs—Credit for educational experiences in the Armed Forces is granted, based on recommendations of the American Council of Education. A maximum of 60 semester hours will be granted, on a combined basis, from the College Level Examination Program (CLEP) tests, USAFI approved courses, correspondence and extension courses. Union College will accept up to nine semester hours of credit from Service Schools, and grant three semester hours of Health and Physical Education credit for military service.

War Orphans Education, P.L. 634—Application should be made at the nearest Veterans Administration Office, prior to registration for college.

Admission to the Graduate Program—The applicant must file an application for admission with the Dean of the Graduate School, Union College, Barbourville. Two transcripts of all college work are required. One transcript on form supplied by the college, must accompany the application. One transcript should be mailed to the Office of the Registrar. There is a $15.00 Application for Admission fee, which is refunded only when admission is denied.

Admission as Auditors—Students may audit some classes, with the permission of the instructor. They must register as if for credit. Students new to Union College pay the regular $15.00 admission. There is also an audit fee.

Physical Examination—Union College attempts to give aid to all students in matters of health. A thorough examination by a regular physician is required as a part of the entrance procedure of each student. Smallpox, tetanus, and typhoid vaccinations are required. During the course of the college year, Tuberculin tests will be given, unless the student can submit proof of having received this test before coming to college.

Physical Examination report forms may be obtained from the Office of College Relations or from the college nurse, and the examination should be made by the applicant's family physician. If a completely filled out medical and dental examination report is not filed at registration, the student is required to have the examinations made by local physicians, at his own expense, before registration is completed.

Room and Board—All students 21 years or older, juniors and seniors (according to the Registrar's Office), veterans, and married students, can live off-campus if they so desire. *Juniors and seniors under 21 must have parental permission.* An application must be made for a room with reservation deposit of $40.00. This deposit should be filed with the application for admission. No room reserved for a student will be held unoccupied beyond the first day of registration unless there is a definite explanation and a request to occupy at a stated later date.

Room Reservation Deposits—The $40 room deposit is refundable up to one year after the last date the student is enrolled at Union College. Should a student pay room deposit, and decide not to enroll at Union College, he will be eligible for a refund up to one year from the date his deposit was received. After the refund period expires, the student forfeits his deposit to the college. A student must submit a written request to the Office of Student Affairs for the refund. Refund of room deposit is conditional upon the depositor leaving the dormitory rooms and equipment undamaged. All readmission students are assigned housing according to their new date of admittance. The readmission acceptance date becomes their room deposit date.

Room keys that are not turned in to the Office of Student Affairs at the end of the term or school year will be charged to breakage at the rate of $1.00 a key. The same rate will be charged to any student for whom it is necessary to replace keys.

Linen and towels will be provided each student living in the college dormitories. The college does not provide blankets, rugs, or curtains. Students should bring study lamps or may purchase them through the college bookstore. Light bulbs for these should not be in excess of 75 watts.

All students who room on the campus are required to board in the college dining hall unless they have permission to do otherwise, from the Dean of Students.

Liability—Union College will not be responsible for loss of personal property or bodily injury resulting from fire or other causes.

Space science workshop with NASA instructors.

College expenses

The academic year of nine months is divided into two semesters. The rates quoted below are for one semester. The cost of a regular session of nine months can be found by multiplying a semester's expenses by two. All checks should be made payable to Union College.

Undergraduate Expenses:	
Tuition (10 to 17 semester hours)*	$ 815.00
Room	145.00
Private Room	210.00
Board (19-meal week)	277.00
Total for Boarding Student*	1237.00
Total for Non-Boarding Student**	815.00
Part-time tuition for all registration under ten or above seventeen semester hours, per semester hour	30.00
Graduate Expenses:	
Graduate Tuition, per semester hour	37.50
Activity ID card	15.00
Summer Session Expenses:	
Tuition, Undergraduate, per semester hour	30.00
Graduate, per semester hour	37.50
Room, each 5-week term	40.00
Private Room, each 5-week term	60.00
Board—full week, each 5-week term (21-meal week)	85.00
—short week (Monday breakfast through Friday lunch) each term (14-meal week)	65.00

*Vacation periods are not included in the quotation. Dormitories are closed during intermissions and Christmas holidays. The college reserves the right to entertain delegates to conventions and other related groups in the residence halls during vacation periods. Students will be notified in advance of such contemplated occasions and assurance given regarding the safe-guarding of their personal property during such occupancy. Due to uncertainties in the price of food the College charges for Board may, if necessary, be changed at any time without notice.

**$10.00 of this amount each semester, is designated for Student Center construction, as voted by students December 10, 1962. $1.00 is collected for Student Senate dues and $1.00 is collected for class dues.

The charges for individual meals in the Dining Hall are as follows: Breakfast, $.85; Lunch, $1.00; Dinner, $1.20; Sunday noon, $1.45.

Other Expenses

Admission fee: Undergraduate	$ 15.00
Graduate	15.00
Audit fee, per semester hour	10.00
Change in schedule fee	2.00
College Court Rental, per month (all utilities furnished)	65.00
Examination: late examination fee	1.00
late final examination fee	5.00
credit by examination, (per course)	25.00
Graduate Activity Fee (For all graduates taking 12 hours or more)	15.00
Graduation fee for Bachelor's degree	25.00
Graduation fee for Master's degree	30.00
Graduation in absentia fee	10.00
Late registration fee	10.00
Music: Preparatory Department: Piano, Strings, Wind Instruments	
one half-hour lesson, weekly, per semester	50.00
one-hour lesson, weekly, per semester	75.00
Music lessons: part-time and special students, per semester	30.00
Transcript—after first copy (one week's notice required)	1.00
Horsemanship Course Fee (per semester)	35.00

Terms of Payment

Full semester's charges, room, board, tuition, and fees, must be paid no later than registration date. Should the student have an approved loan, scholarship, workship, workstudy grant, or other form of financial assistance, such amount will be deducted from the total charges with the then net amount payable at the time of registration. The Office of Business Affairs can make no exception to this regulation. The college also reserves the right to hold a student's transcript or other academic records until all financial obligations to the school have been satisfied.

Refund Information

Since faculty engagements and other commitments are made by the college for the entire year in advance, the following refund schedule has been established in order that the college and the student may share the loss equitably when it is necessary for a student to withdraw or to make a change in his program.

1. There will be no refund given for room rent. This rule applies to all withdrawals including students dismissed from college.
2. Board will be refunded in full amount unused to the date of withdrawal. A full week is charged for any fraction of a week.
3. Tuition will be refunded on the following basis:

   REGULAR TERM—Twenty percent of the total for tuition will be charged for each of the first five weeks. No refunds will be made on tuition after the fifth week. Any part of a week will be treated as a full week. Refund is based on tuition charges, less $10 student center allocation, $1 class dues, and $1 student senate fee.

   SUMMER TERM—Fifty percent of total tuition will be charged the first week and fifty percent the second week. No refunds following the second week. Any part of a week will be treated as a full week.
4. Any registrant who has completed registration and who has failed to attend a single class may have his account credited for the money paid, this to apply for use on future registration within a twelve-month period.
5. *Room Reservation Deposits*—This deposit will be refunded if request is made in writing not later than August 1 for the Fall Semester or thirty days before the opening of any other semester for which the contract is first effective. Students, once enrolled, must submit a written request with the Office of Student Affairs at least 30 days before the end of the term for cancellation of the contract. Graduating seniors must file their request for room deposit refunds before they leave the campus. If the above guidelines are not followed, the deposit will be forfeited by the student.
6. Caution deposit will be refunded upon receipt of written authorization by the Dean of Students or Dean of Women indicating the depositor is no longer enrolled as a student at Union College and that he has left dormitory rooms and equipment undamaged.
7. No fees are returnable, including $15 admissions fee.

   A student is considered to be enrolled until he formally notifies the Office of the Registrar of his withdrawal and all refunds will be based on the date of notification.

Financial assistance

Standards for Receiving Financial Aid

Union College maintains an extensive program providing opportunitie for financial assistance to promising students who need help in meeting thei expenses, or who have attained particular merit in scholarship or other ac complishments. Only those students whose scholarship and character in dicate leadership ability and promise of future usefulness will be approvec for aid.

Students receiving financial assistance may be deprived of their aid at an time if they are negligent in the performance of their duties, careless in thei conduct, or unwilling to cooperate fully with the policy of the college.

As a general policy no student will be eligible for more than one schol arship, nor will any student be eligible for aid from a combination of schol arship, workship, and loan-grant sources in excess of the full amount of hi tuition, room and board. Scholarships and/or grants in aid will not be applie to student accounts until the close of the current semester for which th student is enrolled. Therefore should a student who is the recipient of a scholarship withdraw prior to the close of the semester, he forfeits the righ to all scholarship benefits.

Union College participates in the College Scholarship Service (CSS) of the College Entrance Examination Board. Participants in CSS subscribe to the principle that the amount of financial aid granted a student should be basec upon financial need. The CSS assists colleges and universities and other agencies in determining the student's need for financial assistance. Entering students seeking financial assistance are required to submit a copy of the Parents' Confidential Statement (PCS) form to the College Scholarship Service, designating Union College of Kentucky, College Code 1825, as one of the recipients by May 15. The PSC form may be obtained from a secondary school or the College Scholarship Service, P.O. Box 176, Princeton, New Jersey 08540; P.O. Box 1025, Berkeley, California 94704; or P.O. Box 881, Evanston, Illinois 60204.

Procedure of Applications for Financial Aid

Inquiries regarding scholarships, loans, and financial aid should be addressed to the Director of Student Aid, Union College, Barbourville, Kentucky 40906.

1. No student may be approved for financial aid until official admission to Union College has been granted.
2. An application for financial aid must be submitted to the Director of Student Aid. This form may be obtained by writing the Director of Admissions.
3. Parents or guardians of applicants must complete the Parents' Confidential Statement of the College Scholarship Service, Box 176, Prince-

ton, New Jersey 08540, and return it, following the printed instructions on the form, to Princeton, Evanston, or Berkeley, depending on your place of residence. Blank forms are available in most high school guidance offices or from the College Scholarship Service.

4. Students making application for a scholarship or other financial aid shall submit a transcript to the Office of Student Affairs, as well as to the Registrar.

Scholarships

UNION COLLEGE HONOR SCHOLARSHIPS.—Honor Scholarships in an amount up to $700.00 for the academic year are available to select graduates of accredited high schools enrolling in college for the first time. To qualify, students must rank in the top 3% of their graduating class. Evidence of high school rank must accompany the application for financial aid certified by the high school attended. All test scores should also accompany the application for financial assistance.

Honor Scholarship renewals will be based upon a scale of cumulative grade point averages as follows:

Cumulative Grade Point Average	*Amount of Award*
3.0 . . . 3.49	$500.00
3.5 . . . 4.0	$700.00

Applications from High School Seniors should be received by the Director of Financial Aid, Union College, by April 15, to be assured of consideration by the Scholarship Committee.

Alumni Scholarships.—The Alumni Association of Union College awards two scholarships annually on the basis of character, need, and evidence of future usefulness. The first scholarship is for $400, and the second for $200. Recipients are selected by the Alumni Scholarship Committee.

Appalachian Regional Scholarship.—Two friends of Union College have established the Appalachian Regional Scholarship to be awarded to an Appalachian student on the basis of financial need and promise of future usefulness to the region. The stipend is $150 each semester.

Bank of Harlan Scholarships.—A number of scholarships are given annually to qualified students from Harlan County by the Bank of Harlan. The stipends are determined according to financial need and academic excellence.

Barbourville Kiwanis Scholarship.—The Kiwanis Club of Barbourville, Kentucky, has supplemented an educational fund originated by Mr. C. F. Heidrick and established a scholarship fund at Union College for promising students from Knox County, Kentucky.

Barbourville United Methodist Church Music Scholarships.—Annually The First United Methodist Church of Barbourville, Kentucky, awards four scholarships to music students amounting to $200 for a total of $800. Consideration is given for participation in the music program of the local church.

John A. and Hannah P. Black Memorial Scholarships for Christian Workers.—Dr. and Mrs. Henry C. Black of Johnson City, Tennessee, have endowed

a scholarship that provides an annual stipend of $500.00 for a promising student who plans a life of service in The United Methodist Church.

Dr. and Mrs. James F. Blair Scholarship.—Dr. and Mrs. James F. Blair of Barbourville, Kentucky, have endowed a $250.00 scholarship for students from Knox County, Kentucky. It is awarded annually to a student in the sophomore, junior or senior year on the basis of need, scholarship, character, and promise of future usefulness.

Kathy Brick Memorial Scholarship.—Mr. and Mrs. Theodore F. Brick of Dayton, Ohio, provide annually a scholarship of $100 for a student who participates in the competitive swimming program of the College.

W. S. and Bess Carpenter Scholarship.—Mr. and Mrs. W. S. Carpenter of London, Kentucky, provide annually a scholarship for a worthy freshman preferably from southeastern Kentucky. The stipend varies with need, but is in the $500-$700 range.

Alfred I. DuPont Scholarship Fund.—Mrs. Alfred I. DuPont of Wilmington, Delaware, established a scholarship endowment, the income from which is used annually to provide one or more scholarships to needy students having high academic potential. Preference in the awarding of these scholarships is given to students from the Appalachian counties of Kentucky and surrounding mid-Appalachian region in adjoining states.

Dr. J. Edward Faulkner Memorial Scholarship.—Mrs. J. Edward Faulkner of Barbourville, Kentucky, provides an annual scholarship in memory of her late husband. The scholarship is awarded to a junior or senior who plans a life of service in the healing arts, with preference being given to a predental student.

Ernest Goodwin Green Memorial Scholarship.—Mrs. Ernest Green, Grand Rapids, Michigan, has established a memorial scholarship to be awarded annually to a drama major considered to be the most capable of contributing toward the success of the department. The scholarship is given in memory of her late husband.

John O. and Harriet B. Gross Memorial Scholarship.—Family and friends of Dr. and Mrs. John Owen Gross have endowed a scholarship in their memory. Dr. Gross was president of Union College during the years 1929-1938. The scholarship is awarded annually to a senior student on the basis of scholarship and leadership, with preference being given to students from northern Kentucky. The stipend and requirements are the same as for "United Methodist Scholarships."

Hubbuch in Kentucky Scholarship.—Hubbuch in Kentucky provides an annual scholarship of $400 for a student from Louisville or Jefferson County, Kentucky, who otherwise would be financially unable to attend college. It is awarded annually to a freshman on the basis of financial need, scholarship, character and promise of future usefulness, with special emphasis on students who plan to enter private business activities in Louisville or Jefferson County.

Irene Hughes Scholarship.—Miss Irene Hughes (AB '37; MA '63), Barbourville, Kentucky, provides an annual scholarship of $200 for a freshman girl, a graduate of Knox Central High School, who has been a member of the High School Honors English Class and who exemplifies Christian principles of conduct. The scholarship will be awarded by the Alumni Scholarship Committee.

Rural Electric Scholarship.—The Inter-County Rural Electric Cooperative of Danville, Ky., has established a $100.00 annual scholarship to assist a Union College student whose parents are members of Inter-County RECC in the counties they serve. This scholarship is awarded on the basis of financial need, character and academic promise. Preference will be given to freshmen.

Professor and Mrs. Millard L. Jordan Scholarship.—Professor and Mrs. Millard L. Jordan of Lakewood, Ohio, have established a scholarship fund at Union College to aid worthy Appalachian students. The income from the fund will be awarded as a scholarship to a student each year on the basis of need, scholarship, character and promise of future usefulness.

Junior College Scholarship.—Union College has a limited number of scholarships available to needy graduates of Junior or Community Colleges. The scholarships carry a stipend up to $500.00 per year depending upon need. To be eligible for this scholarship, the applicant must be a graduate of a Junior or Community College having earned the A.A. Degree with a cumulative grade point average of at least 2.5 on a 4 point system. These scholarships are renewable in the senior year providing the student maintains an average of 2.5 or better at Union College.

Junior Study Club Scholarship.—The Junior Study Club of Barbourville, Kentucky, provides a $200 scholarship at Union College to aid worthy students from Knox County, Kentucky. The scholarship is awarded to a girl who graduated from a high school in Knox County who is a Junior or Senior at Union College. The scholarship recipients are chosen on the basis of need, scholarship, character and promise of future usefulness.

Jeffrey W. Kronk Memorial Scholarship.—Mr. and Mrs. Walter F. Kronk of Huntsburg, Ohio, have endowed a scholarship for a needy, qualified student from Geauga, Lake, or Ashtabula counties in Ohio, or from the Appalachian counties of Southeastern Kentucky. The scholarship is in memory of their son, Jeffrey, who was enrolled at Union College from 1963 through 1967. Should there be no qualified students enrolled from these areas in any given year, the endowment income will be used to support the Lincoln-Civil War Collection at Union College.

W. B. Landrum Memorial Scholarship.—Mr. John W. Landrum of Harrodsburg, Kentucky, provides annually a scholarship of $250.00 for a promising United Methodist ministerial student in memory of his father. The student benefited by this scholarship must exhibit outstanding personal attitudes of religious sincerity, devotion, and earnestness in purpose. Demonstrated failure to exhibit these qualifications to a high degree will result in the forfeiture of the scholarship.

London Laundry Scholarship.—The London Laundry & Dry Cleaners, London, Kentucky, has established an annual $250.00 scholarship to assist a student graduating from a high school in Southeastern Kentucky during his freshman year at Union College. The scholarship is awarded on the basis of scholarship, character, and promise of future usefulness.

National United Methodist Scholarships.—The Board of Education of the United Methodist Church makes available annually to several United Methodist students scholarships covering tuition and fees. The awards are made

on the basis of character, need and scholastic ability. Only students having at least a "B" average are eligible.

Presser Foundation Music Scholarship.—Union College receives each year from the Presser Foundation, Philadelphia, Pennsylvania, a grant of $400.00 to be given by the College as a Music scholarship. Recipients of this scholarship are selected by the President of the College and the Head of the Music Department. The recipient must be majoring in music and preference will be given to students preparing to become teachers of music.

E. O. Robinson Mountain Fund Scholarship.—The E. O. Robinson Mountain Fund has established an annual scholarship program to assist needy students who reside in the Appalachian Region of Eastern Kentucky. Students receiving these scholarships should give promise of being able to complete their academic work successfully. *They should be and remain unmarried while receiving assistance from this scholarship.* Qualified persons should apply to the Director of Student Aid.

Robsion Political Science Scholarship.—Honoring Senator John M. Robsion, Sr., and Congressman John M. Robsion, Jr., the Robsion Political Science Scholarship provides a stipend of $750 for the Union College student participating in the Washington Semester Program each year.

Sanders Honor Scholarships.—Colonel Harland Sanders of Shelbyville, Ky., provides annually a number of honor scholarships with the same stipend and on the same terms as the Union College honor scholarships. The Sanders Honor Scholarships are limited to students who do not use tobacco and alcoholic beverages.

Sims Scholarship Fund.—Reverend and Mrs. Harry C. Sims of West View, Kentucky, have established a scholarship fund at Union College to aid worthy students preparing for the United Methodist ministry. The income from the fund will be awarded as a scholarship to a student each year on the basis of need, scholarship, character and promise of future usefulness.

Cawood Smith Harlan County Scholarship.—Mr. Cawood Smith, Harlan County attorney, has established a $5,000 endowment for a scholarship to be awarded to the son or daughter of a miner from Harlan County, Kentucky. The recipient shall be a resident of Harlan County and selected upon the basis of need, scholarship, and promise of future usefulness to the coal region. The stipend shall be $250.00.

Hulbert Taft, Jr. Memorial Scholarship.—Mrs. Thomas C. Haydock, Sr. of Cincinnati, Ohio, has provided a scholarship endowment as a memorial to her late husband, Hulbert Taft, Jr. The income from the endowment will be used annually to provide one or more honor scholarships to needy students having high academic potential.

Union National Bank Scholarship.—The Union National Bank of Barbourville, Kentucky, has established a half-tuition scholarship of $815 at Union College to aid worthy students from Knox County, Kentucky. It is awarded to a student graduating from a high school in Knox County, for the freshman year at Union College, on the basis of need, scholarship, character, and promise of future usefulness.

Harry C. Viall Memorial Scholarship.—Mrs. Harry C. Viall of Barbourville, Kentucky, has endowed a memorial scholarship for a needy, qualified student with preference going to an individual from Knox County. The annual scholarship is given in memory of her late husband, Harry, who was a prominent local businessman.

O. H. Viall Memorial Scholarships.—Mrs. O. H. Viall and family of Barbourville, Kentucky, have established a memorial scholarship fund at Union College to aid worthy students. The number and size of the scholarships vary being intended for emergency use by needy students.

William M. Wilson Memorial Scholarship.—Mrs. Eva Oldfield Wilson of Barbourville, Kentucky, has established a scholarship fund in memory of her late husband. The income from the fund will be used to provide an annual stipend of $200 for a promising student preparing to teach in the elementary or secondary schools.

Andrew G. Yankey Scholarship Fund.—This is a $500 annual scholarship for a Bell County student with the first preference being a Henderson Settlement School graduate. Qualifications will include need, character, and academic promise. The providers of this fund are particularly interested in students who, upon graduation, plan to labor in the hills of Kentucky. This fund is established by the Reverend Glenn Tex Evans, former administrator of the Henderson Settlement School, in honor of Mr. Andrew G. Yankey, a native Kentuckian, and is meant to be a symbol of Mr. Yankey's affection for and interest in the youth of Kentucky.

Other Scholarships.—Other scholarships are often available for students of exceptional academic ability and/or great financial need. Inquiries should be addressed to the Director of Student Aid.

Assistantships

Several Senior Assistantships are made available annually, one or more in each of the academic divisions. The assistantships are open to students of outstanding scholastic ability who exhibit great promise of future usefulness and who are considering graduate studies with a view of entering college teaching. The duties of the Senior Assistants include occasional classroom lectures, research, remedial work with beginning students, assisting in laboratories, etc. The Assistants are expected to spend a minimum of twelve hours per week on the work assigned. The awards are made by the Scholarship Committee upon recommendation from the Division Chairmen. Senior Assistants receive a stipend of $600 per year.

Graduate Assistantships

Assistantships carry a stipend of $700.00 each, plus a remission of graduate tuition and room.

Graduate Assistants are expected to devote their entire time to graduate studies and to assume such responsibilities as may be assigned by their department or major professor. The award is paid in nine equal monthly install-

ments. The appointments are made for one year only but may be renewed if it can be shown that the study and research should be continued.

These assistantships are open to students who hold the Bachelor's Degree from a college or university of recognized standing. Forms for making application may be secured from the Office of the Director of Student Aid and application must be submitted no later than April 1.

Workships

The college seeks to employ as many students as possible in jobs on the campus. Such jobs consist of stenographic work in college offices, science laboratory assistance, service in the dining room and kitchen, in the library, student center, gymnasium, and on the campus grounds. Each workship student is under the supervision of a faculty member or other college employee who makes a monthly time report to the Office of Student Affairs where credit on an hourly basis is entered on the student's account. Students are paid the minimum wage. The Director of Student Aid can withdraw the workship at any time if student performance or attitude is unsatisfactory.

Work-Study Program

Undergraduate students who need financial assistance to attend college may apply for employment under the College Work-Study Program at Union College. Consideration is given to students whose parents' annual gross income is $7,500 or less. Students who work part-time while attending school and full-time during vacation periods may earn a large portion of the amount needed for college expenses. The federal minimum wage is paid to all enrollees.

Graduate students who have need and qualify according to parental income as set forth above, may be considered for the College Work-Study Program. Those assigned will receive more than the federal minimum wage.

Educational Opportunity Grants

The Educational Opportunity Grant Program provides grants of from $200 to $1,000 to students of exceptional financial need who are in academic good standing at Union College. Students coming from families in which the parents can contribute less than $600 per year toward the expenses of college can qualify as being of "exceptional financial need." This program, financed by the government, is an "opportunity" program and not a "scholarship" program, and therefore students are eligible if allowed to remain in the institution, if academic promise continues, if it is reasonable to expect graduation, if Federal funds continue to be available, and if financial need remains. Those interested may receive applications and further information through the Director of Student Aid.

Loan-Grants

Ministerial Loan-Grant.—Ministerial loan-grants amounting to $400.00 for e academic year are available to students studying for the ministry. To be igible for this aid the student must have a license to preach, or enroll in the on-credit religion course, Conference Studies, which is designed to prepare ndidates for the obtaining of the license to preach. Renewal of the loan-ant is dependent on the student's successfully passing this course and ob-ining the license to preach before the beginning of the next academic year. pplicants qualified for the loan-grant must sign a note for the amount re-ived each semester. These notes will be cancelled after the individual has ntered into the full-time ministry. If the student changes his plans and enters nother field of endeavor the notes become due and payable.

Loan-grants amounting to $700.00 for the academic year are available to nited Methodist Local Preachers who agree to serve four years in the Ken-cky or Louisville Annual Conference. These notes will be cancelled after the ecified service has been fulfilled. Apply to the Director of Religious Life.

Aid to Children of Ministers.—Special consideration for various kinds of nancial aid is given to unmarried dependent children of United Methodist inisters. The total amount of assistance will be based on financial need. pplications should be submitted to the Director of Financial Aid and addi-onal information may be secured from this office.

College Employee Grants.—The spouse and unmarried dependent child-n of full-time employees of Union College may receive a full tuition grant Union College. A tuition grant at other colleges participating in the Tuition change Program is available to employees' unmarried dependent children.

Loans

United Methodist Men's Loan Fund.—The United Methodist Men's Clubs f the Kentucky and Louisville Conferences of the United Methodist Church rovide loans to deserving men and women students of Union College. Appli-ations are received by the Office of Student Affairs. New freshmen must have "B" average in high school. Loans may be received up to $400 per year.

United Methodist Student Loan Fund.—The Board of Education of The nited Methodist Church makes available to worthy students at Union Col-ge the resources of The United Methodist Student Loan Fund. Apply to the irector of Student Aid at Union College.

National Direct Student Fund.—Union College is participating fully in the udent loan-program as established by the 85th Congress in the National efense Education Act of 1958. Only students with above average records and al financial need should apply for these loans. Special consideration in the lection of loan recipients will be given to students with superior academic ackground who express a desire to teach in elementary or secondary schools, nd to those whose academic background indicates a superior capacity or reparation in science, mathematics, or a modern foreign language. Detailed

information may be obtained by writing to the Director of Student Aid, Uni
College.

United Student Aid Fund Loan.—Students with above average acader
records and a financial need may obtain a United Student Aid Fund loan
to $500 per semester. Further information may be secured from the Direc
of Student Aid.

Elizabeth L. Gates Loan Fund.—Mrs. Waldo Brown of Knoxville, Tenn
see, has established a loan fund in memory of the mother of Mr. John B. Gat
a former student at Union College. The resources of the fund are available
senior male students preparing for the ministry.

Burton and Verda Hensley Student Loan Fund.—Mr. and Mrs. Burtor
Hensley have established a loan fund to aid students at Union College. T
resources of the fund are available to worthy and needy unmarried studer

Rev. and Mrs. Erwin King Loan Fund.—Rev. and Mrs. Erwin King ha
established a loan fund to aid worthy ministerial students in their junior
senior years at Union College. To qualify for a loan the students must poss
high qualities of character and scholarship.

Guy H. Williams Loan Fund.—Dr. Guy H. Williams of Cleveland, Oh
has established a loan fund in memory of his wife, Anna Williams. The
sources of the fund are available to worthy students who have spent two ye
at Union College and have a "C" average or better.

Book Loan Fund.—The Senior Class of 1957 established a loan fund w
the hope that future classes would add to its capitalization. The resources
the fund are available to full-time students on a short-term loan basis for t
purchase of required textbooks.

Knox County Chamber of Commerce Student Loan Fund.—Mr. Willi
S. Murphy, former director of development at Union College and first vi
president of the Knox County Chamber of Commerce, provided the initial g
to establish this fund. The continued support of the fund was accepted by t
Knox County Chamber of Commerce as an expression of appreciation for t
contribution of Union College to the educational, economic, social, and re
gious life of Knox County and vicinity. The Knox County Chamber of Co
merce attempts to make annual contributions to this fund, and encourag
local citizens to do likewise.

The Charles Henry and Glennora Rominger Krieger Student Loan Fund.
This loan fund, established by the late Glennora R. Krieger of Ft. Thom
Kentucky, provides loans to worthy and needy students at Union College fro
the designated Appalachian counties of eastern Kentucky. The terms of t
loans are the same as The United Methodist Student Loan Fund.

Pickett and Hatcher Educational Fund.—Loans in an amount up to $1,2
per academic year are available to students for the payment of tuition, roo
and board. The maximum amount available is $4,800 for undergraduate stuc
Applicants must apply directly to the agency. Further particulars are availab
from the Office of Financial Aid.

Special Payment Plan.—The Insured Tuition Payment Plan of Bosto
well-known in the educational field, offers two convenient payment pr
grams for parents who desire to budget the annual cost in monthly insta

ents. Both programs include insurance protection which covers the balance the cost of the entire educational program in the event of the death or sability of the insured parent. There is a prepayment program which begins fore the first payment is due at the school and ends before graduation. onsequently, there is no interest charge. There is also an extended repay-ent plan. This program takes advantage of low cost loan facilities. It reduces e monthly payments and spreads the cost out over a longer period of time. e earlier the program is started, the smaller the payments and the longer e term of insurance protection. Information about these two programs is nt on request to the parents of incoming students.

Other Loan Funds.—Student loans are available from a number of funds t specifically designated for Union College students, but for which Union llege students are eligible. Specific information may be obtained from the irector of Student Aid.

Endowments

The Russell M. Bennett Memorial Professor of Sociology Chair.—This air was given to Union College by Mrs. Helen Hunt Bennett in the amount $75,000 for the endowment of this professorship in 1946. An additional ,000 was given for the equipment of the Business Department.

Dr. Robert E. Drew Endowment Fund.—The Commission of Missions of e Hyde Park Community United Methodist Church, Cincinnati, has estab-hed an endowment fund in honor of the Rev. Dr. Robert E. Drew, former ssociate Pastor of the church and an honorary alumnus of Union College. e income from this fund will be used for scholarship grants to foreign udents.

Dr. Franklin Duncombe Memorial Fund.—Mrs. Helen Duncombe of Hav-ford, Pa., has established an endowment fund in memory of her late hus-and, an honorary alumnus of Union College. Income from this fund will be sed to finance grants-in-aid under the college loan-grant program for stu-ents planning to enter the United Methodist ministry.

Anna E. and John William Harris Memorial Fund.—Dr. J. William Harris s established a lectureship fund containing the sum of $30,000 in memory his sister, Anna E. Harris, and his father, John William Harris.

Charles and Leona Jennings Memorial Fund.—Dr. Charles M. Jennings of arietta, Georgia, has established an endowment fund in memory of his arents, Charles and Leona Jennings, the income from which is to be used to ovide an annual bonus to the head of the department of biology at Union llege.

William Jones Endowment Fund.—Mr. William Jones of Barbourville, entucky, has established a fund, which may be augmented from time to me, the income from which is designated for use by the School of Music to rchase recordings and musical scores.

Jeffrey Kronk Memorial Endowment.—This endowment, established by e Senior Class of 1967, in memory of Jeffrey Kronk, a member of that class,

will assist in purchasing books for Union College's Lincoln-Civil War Colle tion.

Francis Landrum Memorial Professor of Religion and Philosophy.—M Obed H. Wilson has established the Francis Landrum memorial professorsh through a bequest of $50,000 in 1927.

Dorothy Lucas Memorial Fund.—An endowment fund has been esta lished in memory of Miss Dorothy Lucas, Registrar of Union College for ma years, and much beloved friend of students. The income from the fund is us to support various student aid activities of the college.

Melanie Jean Martin Trust Fund.—Dr. and Mrs. O. J. Wilson of Bowli Green, Kentucky, have established a memorial fund in memory of their gran daughter. The income from the fund is used to purchase library books support the work of the English Department.

John and Minnie B. McGaffee Trust Fund.—Dr. and Mrs. O. J. Wilson Bowling Green, Kentucky, have established the John and Minnie B. McGaff Trust Fund for the purpose of providing financial assistance to worthy a needy preministerial students. The income may be used for grants or loa with preference being given to students from the Appalachian Region Kentucky.

Pearl Sinnett Meyer Memorial Fund.—The Rev. Dr. Jesse I. Meyer Pikeville, Kentucky, has established an endowment fund in memory of h wife, Mrs. Pearl Sinnett Meyer. The income from this fund is designated f the purchase of books for the Union College library.

Emory Evan Peter Memorial Endowment.—The late Mrs. Laura P. Dick of Louisville, Kentucky, has established an endowment fund in memory of h brother, Emory Evan Peter. The income from this fund will be used to he finance the college student aid program.

Lewis Ogden Stiles Endowment Fund.—The late Mrs. Lewis Ogden Stil of Waco, Texas, established this fund to memorialize her husband, Lew Ogden Stiles, and his first wife, Pearl Long Stiles, both faithful United Metho ists of Irvington, Kentucky. The income from this fund will be used to finan grants-in-aid under the college loan-grant program to United Methodist st dents planning to enter the ministry of the Kentucky or Louisville annu conferences.

Willson-Gross Lectures.—Dr. and Mrs. James Willson of Floydada, Texa have established a lectureship endowment in memory of Dr. and Mrs. Jo Owen Gross. The purpose of the lectures is to bring annually to the camp distinguished speakers to discuss vital issues confronting the Christian st dent.

Beverly P. and Mossie B. Wilson Trust Fund.—Dr. and Mrs. O. J. Wils of Bowling Green, Kentucky, have established a memorial fund in memory Dr. Wilson's mother and father. The first $100 income from the fund shall b used to support the annual "Beverly P. and Mossie B. Wilson Memorial Awa in English." Income in excess of $100 shall be used for a revolving loan fu for students majoring in English.

Colutha J. Taylor Wright Memorial Fund.—Mr. J. S. Wright of Whitley ty, Kentucky, has established an endowment fund in memory of his wife, rs. Colutha J. Taylor Wright. The initial sum was $1,000.

Awards

Alpha Psi Omega Award (National Dramatics Honor Fraternity); an Oscar the male and an Oscar to the female who has contributed most toward ama at Union College, as selected by the members of the Fraternity.

Art Club to the Art student judged most outstanding during the year.

The Bartlett Sociology Award in memory of Mrs. Ellen Savina Bartlett of wa Falls, Iowa, to the student showing the greatest excellence in the field Sociology.

Senior Biology Award, by Dr. Theodore R. Davies, to the senior student owing the highest academic excellence in the field of Biology.

Blackwell Memorial Award in Political Science, by the late Dr. Robert Lee ıckwell in memory of his mother, Mrs. Victoria Wolfe Blackwell, to the nior student majoring in history and/or political science showing the high- academic excellence in the field of political science.

Kathy Brick Memorial Award, by her parents, Mr. and Mrs. Theodore F. ck, Dayton, Ohio, to the student showing the highest proficiency in com- titive swimming.

The Burke Mathematics Award, in memory of Dr. A. R. Burke, of Bingham- n, New York, to the student showing the greatest excellence in the field of ıthematics, by Mrs. A. R. Burke.

The Chemistry Department Awards in General Chemistry, Analytical emistry, Organic Chemistry, and Physical Chemistry. The award is given to e student who has completed the year course with the best all around erage. Awards are furnished by the Chemistry Department Faculty.

The Daniel Drinkard Memorial Award, by students of Union College and ends, through the Alumni Association of Union College, to the runner-up the Athlete of the year, the athlete who exemplifies the characteristics of sire, kindness, honesty, and personal integrity, as embodied in his personal- and attitude. The award shall be presented each year at the Athletic Ban- et and shall be in the form of a plaque kept in the trophy case in the Physical ucation Building; a miniature plaque shall be given to the recipient of the ard.

Eastern Kentucky Essay Award, by Dr. Kenneth H. Tuggle, Trustee of ion College, to the student writing the best essay on Eastern Kentucky tory.

French Award, a book, to the graduating senior majoring in French with highest cumulative standing in the field.

Freshman Composition Award, by Dr. and Mrs. Bjornstad, formerly of the ulty of Union College, to the student achieving highest writing excellence freshman composition courses as determined by the English Department.

Gamma Beta Phi Award, a book, to the full-time student with the high cumulative average in hours earned at Union College. In case of a tie, t award will go to the student with the greatest number of hours.

Dr. L. A. Geiss Award to the graduating senior majoring in Business w the highest cumulative standing in that field.

Mrs. L. A. Geiss Award, to the student majoring in the Department Home Economics achieving the highest academic standing in that field for t year.

German Award, a book, given by Mrs. W. J. Marigold of Toronto, Canad in memory of the late W. J. Marigold, to the graduating senior majoring German with the highest cumulative standing in that field.

Governor James D. Black Award, by the late Pitzer D. Black, to the sen student with the highest scholastic average for the year.

Hubert H. Hoeltje Memorial Award, a copy of a book by the late Hub H. Hoeltje (Professor of American Literature at Union, 1961-1968) to the u dergraduate student who, in the judgment of the Head of the Department English, has done the most perceptive work, in class and in written repor in that field during the current academic year.

Iota Sigma Nu Awards, to the freshman and the sophomore students w the highest scholastic average in their respective classes for the year.

The Laws and Esten Parks Award by Mr. S. Laws Parks, Vice President Business Affairs of Union College, and Mrs. Parks, presented annually to t preministerial senior student with the highest cumulative academic standi

Literature Award, by the Tuesday Club of Barbourville, Kentucky, to t senior student majoring in English who shows the greatest excellence in t field of literature.

Samuel A. Matthews Memorial Award, a book given by Robert D. M thews to a pre-ministerial student.

Dr. Paul Muncy Memorial Award, by the Board of Trustees, to the sen premedical student with the highest cumulative academic standing.

The School of Music faculty to a student majoring in music for intere initiative, cooperativeness, musical ability, academics, and service to the d partment.

Student National Education Association Award, given by the John Ow Gross chapter to the graduating senior showing the greatest excellence in t field of education.

H. H. Owens History Award, by Mrs. H. H. Owens, to the student showi the greatest excellence in the field of history.

The H. B. Jones Business Enterprise Award, in memory of H. B. Jones, attorney in Pineville and Louisville, Kentucky, whose business interests i clude coal mining, railroading, and construction. The $50 award is given to student who, in the judgment of the Scholarship Committee of the facul has shown initiative and enterprise in the field of business.

President's Award by President Mahlon A. Miller to the senior stude who has the highest cumulative record in grades earned at Union Colleg

The Physical Education Faculty Award, to the man and woman seni majors with the highest cumulative academic standing.

Sampson Political Science Award, by the late Governor Flem D. Sampson, the junior student showing the highest academic excellence in the field of litical science.

The Hattie Stanberry Ecology Award, in memory of Miss Hattie Stanberry, raduate of the Union College Academy and faculty member of the college 1909-1910, who later became Mrs. H. B. Jones. The $50 award is given to student or organization that, in the judgment of the Scholarship Commit- of the faculty, has made a contribution to environmental improvement in academic year.

Katherine V. Sutphen Memorial Award, by the Alumni Association of ion College, to the music student who has used his talents best during the ar in serving Union College.

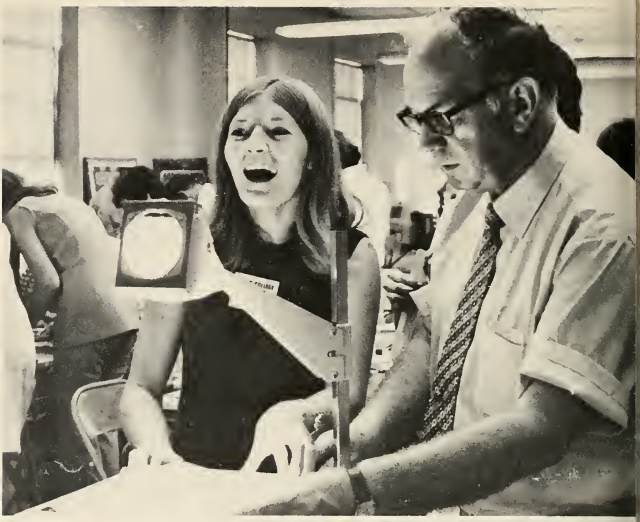
Judge W. W. Tinsley Family Memorial Award, by the late Mrs. Mayo sley Rathfon, to the junior or senior student preparing for a legal career owing the greatest promise for future success.

Union College Faculty Award, to the Varsity Letterman with the highest olastic average for the year.

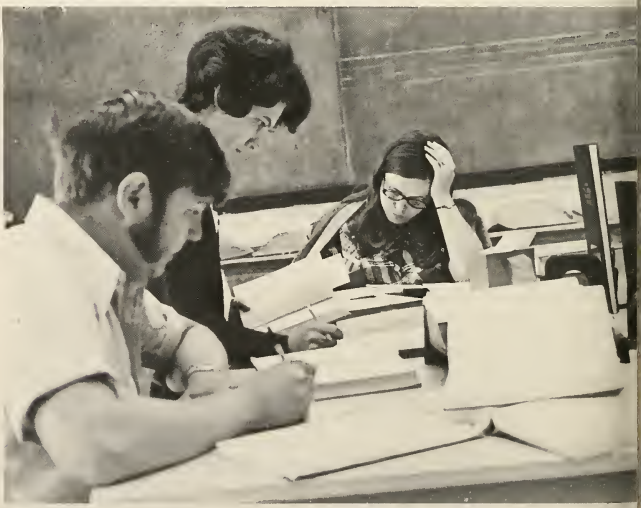
Beverly P. and Mossie B. Wilson Memorial Award in English, by Dr. and s. O. J. Wilson to the student majoring in English with the highest cumula- e grade point standing who has completed three full years of residence at ion College.

Cecil H. Wilson Award to the junior student with the highest scholastic rage for the year.

John Henry Wilson Award, former member of Congress from Barbour- e, given by his granddaughter, Mrs. Guy D. Attkisson, Jr., of St. Petersburg ach, Florida, to the sophomore student from the Fifth Congressional District Kentucky who has the highest scholastic average for the year.



Audio-visual workshop for teachers



Working in library science.

Graduate school

The Union College Graduate School program is accredited by the Southern Association of Colleges and Schools and is approved by the State Department of Education of the Commonwealth of Kentucky.

The Graduate School has developed and implemented Master of Arts in Education degree programs for elementary school teachers, reading specialists for the elementary schools, health teachers for the elementary schools, and elementary school librarians. It has developed and implemented Master of Arts in Education degree programs for secondary school teachers of English, social studies, science, health, reading specialists, and for the secondary school librarian. With the exception of the field of library science, holders of this degree from Union College are qualified for the Standard Certificate and Rank II salary in Kentucky and for the fifth year certificate in other states. Students specializing in the field of library science are qualified for having their provisional certificate endorsed for library sciences and for Rank II in salary. The Graduate School also offers the fifth year program for the renewal of the Kentucky Provisional Certificate.

The Graduate Program at Union is designed primarily to provide advanced training for in-service teachers in the geographic area of the college. In addition to its regular academic year for the full-time graduate students, it provides summer sessions, Saturday classes, evening classes, internships, field programs for research and study, and school-community assistance in solving school-connected problems.

Organization for Graduate Studies—The Graduate Studies Program has a Graduate Faculty, a Graduate Council, and a Dean of the Graduate School. The Graduate Council determines the policies, programs, curricula, and membership in the Graduate Faculty and in the graduate student body.

Types of Graduate Students—Graduate courses are open to: (1) students who enter and become candidates for the degree Master of Arts in Education, (2) students who are interested in the fifth year program for renewal of the provisional certificate to teach, and (3) students with baccalaureate degrees who wish to broaden their education without reference to a graduate degree.

Requirements for Admission to the Graduate School—The applicant for admission to the Graduate School must possess a Baccalaureate degree from a regionally accredited four year institution. The applicant must file an application for admission and two copies of a transcript of all previous college work. For unconditional admission, the transcript must show a sufficient and satisfactory undergraduate preparation in the major field. The student preparing for the standard secondary teaching certificate may select a major field of interest in which he has at least a minor of twenty-one semester hours. If he does not have at least a minor, he will be required to take work at the undergraduate and/or graduate level sufficient to develop a satisfactory minor. The secondary school teacher preparing to serve as a school librarian may take the entire twenty-one semester hours at the graduate level.

Admission to the Graduate School is not equivalent to admission to candidacy.

Admission to Candidacy for the Degree Master of Arts in Education—A student will be admitted to candidacy for the degree Master of Arts in Education only after he has fulfilled the following requirements: (1) Shown aptitude during a semester or full summer session (or an equivalent period of residence in Saturday classes) to accomplish work of a graduate character. A minimum of twelve semester hours of graduate work with a grade point average of at least 3.0 fulfills this requirement; (2) Possesses a valid teaching certificate based on four years of standard college preparation in the state in which it was issued; (3) Completed a minimum of fifteen semester hours of professional education courses at the undergraduate and/or graduate level; (4) Satisfied any deficiency in oral or written English that has been reported by any member of the graduate faculty; (5) Made written application to the Dean of the Graduate School for admission to candidacy for the Master of Arts in Education.

Each applicant for candidacy must have an interview with the Dean of the Graduate School. The Dean shall recommend an applicant's admission to candidacy to the Graduate Council following a positive appraisal of the student's personality, character, academic proficiency, and other factors deemed important for the completion of the particular curriculum in which the student is working.

Residence-A residence of at least one academic year or its equivalent in summer sessions and/or part-time work is required. At least one semester or one summer session of full-time residence work is required.

Time Limit—Students should fulfill the requirements for the Master of Arts in Education degree within five years. Extension of time for reasons acceptable to the Graduate Council may be granted but all degree requirements must be completed within eight consecutive years. Credit earned over a longer period of time cannot be applied toward the degree.

Course Work—Candidates for the degree Master of Arts in Education must complete thirty semester hours of graduate work in courses with a quality point average of 3.0 or better. At least fifteen semester hours must be in courses open only to graduate students (Courses numbered 500 and above). At least nine semester hours of education courses must be those limited to graduate students. The remaining course work shall be determined by the Dean of the Graduate School and the student's graduate committee in terms of the student's needs, provided that (1) at least twelve semester hours shall be in approved field or fields of interest outside professional education,* and that (2) all such course work shall be approved upper division or graduate in level.

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*These twelve hours shall be selected to strengthen the academic specialization of the secondary teacher and/or to further develop the general education background of the elementary or secondary teacher.

Twelve semester hours per semester for full-time students, six semester ıours per semester for in-service teachers, and six semester hours per summer erm shall constitute the normal load for graduate students at Union College.

Not more than six semester hours obtained in a different but recognized nstitution may be transferred and credited to the Master of Arts in Education legree, provided that the work was completed in a recognized graduate chool, is appropriate to the student's planned program, carries a grade of at east B, and provided that acceptance of the transfer credit does not reduce he minimum period of one academic year at Union College.

Credit not exceeding six semester hours may be accepted from extension tudy but such credit may not be applied to reduce on-campus residence.

Not more than a total of six semester hours may be accepted from exten-ion and transfer credit combined. No credit toward a Master of Arts in ducation degree may be obtained by correspondence.

Thesis—While the thesis is not required in any program leading to the legree Master of Arts in Education, students with special research interests re encouraged to consider a thesis. If a student elects to write a thesis, he vill register for the course 599 in the appropriate department for six semester ıours credit in lieu of the same number of hours of course work.

Comprehensive Examination—An oral and/or written examination cover-ng professional education is required during the term in which graduation ; scheduled.

At the conclusion of the examination, the student will be notified in vriting whether he has passed or should do further study.

Commencement—Candidates for the degree Master of Arts in Education re expected to be present at commencement to receive the degree in person nless excused in writing by the Dean of the Graduate School at least two veeks prior to commencement. Such candidates must also pay an in absentia ee of $10.00.

Suggestions for Planning the Elementary Teachers Program—This curric-lum is designed to improve the professional competence and skills of teach-rs in elementary schools. It is determined in part by the student's ndergraduate program and the student's strengths and weaknesses as re-ealed by that record. Successful completion of the following program qual-ies the graduate for the Standard Elementary Certificate (Rank II).

Professional Education — 9 semester hours

Selection from among courses such as Education 441G, 501, 503, 510, 530*, 532, 535, 540, 542, 545, 550.

Non-Professional Subject Matter — 12 semester hours

Courses such as Mathematics 531 and 532, English 401G, English 551, Gen. Science 594, Psychology 411G, 431G and 441G.

Required for elementary teachers.

Electives 9 semester hour
Selection from the two groups above as well as from other course open to graduate students.

Suggestions for Planning the Program for Kindergarten Teachers—Thi curriculum is designed for the elementary teacher and especially the primar teacher who wishes to qualify to teach in the Kindergarten. It is determine in part by the student's undergraduate program and the student's strength and weaknesses as revealed by that record. Successful completion of th following program qualifies the graduate for Standard Elementary Certificat endorsed for the Kindergarten and Rank II.

Professional Education 10 semester hour
Selection from among courses such as Education 540, 542, 545

Non-Professional Subject Matter 12 semester hour
Electives in the academic, related areas with the approval of th Dean of the Graduate School.

Suggested Electives 9 semester hour
Education 441G, 501, 503, 510, 530, 550
English 401G, 551
Psychology 411G, 431G, 441G

Suggestions for Planning the Program for Reading Specialists—This cu riculum is designed for the training of reading specialists at the elementar school level as well as specialists for the remedial reading program at the hig school level. Persons who complete this program are recommended for th Standard Elementary or the Standard High School Certificate and Rank II.

Professional Education 9 semester hour
Education 530, 532, 535. Education 361 is to be taken for undergradu ate credit prior to this sequence.

Non-Professional Subject Matter 12 semester hour
Electives in the academic, related areas with approval of the Dean c the Graduate School, but must include Psychology 525.

Other Required and Elective Courses
Select 12 sem. hrs. from the following courses marked with an aster isk. Select 6 additional sem. hrs. from this list.

Education 501	History and Philosophy of Education	3
Education 503	The Elementary School Curriculum	3
Education 504	The High School Curriculum	3
*Education 510	Television and Other Educational Media	3

Education 550	Improvement of Instruction (Supervision)	3
Education 580	Methods of Educational Research	3
*English 401G	Theory of Grammar	3
*English 551	Comparative Studies in Linguistic Theory	3
*English 552	Research Problems in Linguistics	3
*Libr. Sc. 455G	Books and Related Materials for Children	3
*Psychology 411G	Educational Psychology	3
*Psychology 431G	Mental Hygiene	3
*Psychology 441G	Measurement and Evaluation	3

Suggestions for Planning the Program for Teachers of Health—This curric-lum is designed to improve the professional competence and skills of teach-rs of health in the Elementary as well as in the Secondary School. It is etermined in part by the student's undergraduate program and the student's trengths and weaknesses as revealed by that record. Successful completion f the following program qualifies the graduate for the Standard High School ertificate and Rank II in Kentucky and for the fifth year certificate in other tates.

Professional Education — 9 semester hours

Selection of a minimum of nine semester hours from among such courses as Education 441G, 501, 504, 510, 550, 570, and 580.

Health — 12 semester hours

The student must select sufficient hours from the following Health courses so that when combined with his undergraduate courses in Health he will have a teaching field of twenty-one semester hours in this subject.

Health 411G, 421G, 431G, 451G, 452G, 481G, 501, 511, 521, 531, and 592.

Suggested Electives — 9 semester hours

Selection from the two groups above as well as from other courses open to graduate students with approval of the Dean of the Graduate School. The elementary teacher must take Education 530.

Suggestions for Planning the Program for School Librarians—This curric-lum is designed for the training of the elementary school librarian and the econdary school librarian depending upon which provisional certificate the eacher holds. It also qualifies the teacher for Rank II.

Professional Education — 9 semester hours

Selection from among Education 501, 504, 530*, 535, and 550.

Library Science — 21 semester hours

Library Science 413G, 429G, 433G, 455G, 472G, 482G, 510, and 539.

Required for elementary teachers.

Suggestions for Planning the Program for High School Teachers of Eng lish—This curriculum is designed to improve the professional competenc and skills of teachers of English in the secondary schools. It is determined i part by the student's undergraduate program and the student's strengths an weaknesses as revealed by that record. Successful completion of the followin program qualifies the graduate for the Standard High School Certificate an Rank II in Kentucky and for the fifth year certificate in other states.

Professional Education — 9 semester hour
Selection of a minimum of nine semester hours from among suc courses as Education 441G, 501, 504, 510, 530, and 550.

English — 12 semester hour
From twelve to twenty-one semester hours must be selected from th field of English upon the advice of the student's major professor. Th undergraduate preparation of the student shall be taken into consid eration in planning this part of the program.

Electives — 9 semester hour
Selection from the two groups above as well as from other course open to graduate students.

Suggestions for Planning the Program for Teachers of Science—This cur riculum is designed to improve the professional competence and skills o teachers of science in the elementary as well as the secondary schools. I updates the teachers preparation as well as extends that preparation in depth and breadth. It is determined in part by the student's undergraduate progran and the student's strengths and weaknesses as revealed by that record. Suc cessful completion of the following program qualifies the graduate for th Standard High School Certificate and Rank II in Kentucky, and for the fifth year certificate in other states.

Professional Education — 9 semester hours
Selection from among courses such as Education 441G, 501, 504, 510 550, 570, 580.

Non-Professional Subject Matter — 12 semester hours
From twelve to twenty-one semester hours must be selected from the field of the Sciences upon the advice of the student's major profes sor. The undergraduate preparation of the student shall be taken into consideration in planning this part of the program.

Suggested Electives — 9 semester hours
Selection from the two groups above as well as from other courses open to graduate students with approval of the Dean of the Graduate School.

Suggestions for Planning the Program for High School Teachers of the ocial Studies—This curriculum is designed to improve the professional com- etence and skills of teachers of the social studies in the secondary schools. is determined in part by the student's undergraduate program and the tudent's strengths and weaknesses as revealed by that record. Successful ompletion of the following program qualifies the graduate for the Standard igh School Certificate and Rank II in Kentucky and for the fifth year certifi- ate in other states.

Professional Education — 9 semester hours
Selection of a minimum of nine semester hours from among such courses as Education 441G, 501, 504, 510, and 550.

Social Studies — 12 semester hours
From twelve to twenty-one semester hours must be selected from the field of Social Studies upon the advice of the student's major professor. The undergraduate preparation of the student shall be taken into consideration in planning this part of the program.

Electives — 9 semester hours
Selection from the two groups above as well as from other courses open to graduate students.

Fifth Year Program for Renewal of Provisional Teaching Certificates—All ew provisional teaching certificates now issued in Kentucky on the basis of four-year program and a bachelor's degree are valid for an initial period of en years and shall be renewed upon "completion of a planned fifth year rogram of college work." The fifth year program is a mandatory requirement or all teachers and the program planned for this purpose below is available o all teachers and will be planned appropriate to the needs of their respective eaching assignments. It is understood that the teachers involved are certified rofessionals who have already completed one teacher education program nd will not be subjected to further academic hurdles or screening processes, ut are being continuously upgraded on the job through this program.

The following plans will satisfy the planned fifth year requirement for the enewal of the provisional teaching certificates and shall qualify a teacher for ank II classification under the Foundation Law.

Plan I The completion of the requirements of the degree Master of Arts in Education at Union College.

Plan II The completion of a planned fifth year program in accordance with the following guidelines:

A. The fifth year program shall be planned individually with each applicant by the Dean of the Graduate School.

B. The fifth year program shall consist of thirty-two semester hours credit with an academic standing of no less than 2.2. At least eighteen semester hours must be earned at Union College in res-

idence. At least twelve semester hours shall be graduate lev course work. At least twelve semester hours shall be in professior al education. At least twelve semester hours shall be from nor professional academic disciplines.

C. Credit earned by correspondence shall not apply toward the fift year program.

Courses of Instruction—The Curricula section following lists both unde graduate and graduate courses. Those courses numbered 500 and above ar open only to graduate students. All courses numbered in the 400's and fo lowed by "G" are open only to upper division and graduate students. All othe courses are open only to undergraduate students.

Graduate Assistantships—Students interested in obtaining a graduate as sistantship should turn to the financial assistance section.

For further information about the graduate program, write to:

Dean of the Graduate School
Union College
Barbourville, Kentucky 40906

Curricula

Students should plan carefully their college work, keeping in mind the general requirements for degrees and their vocational or professional interest. The Dean of the Faculty, the Registrar, the Director of Guidance, the student's Advisor, Department Heads are all available to assist in the planning of a balanced program.

Students who have not made a vocational or professional choice and students who expect to enter a professional school which requires a general college education are urged to schedule their first two years' work from the following program.

Freshman Year	*Sem. Hrs.*
English 111-112	6
Natural Science	8
Humanities	3
Social Science	6
Electives	5

Sophomore Year	*Sem. Hrs.*
Humanities	9
Foreign Language	6
Social Science	6
Electives	9-11

The pattern of courses for a junior or a senior is determined by the student's choice regarding majors and minors.

Curricula for various objectives are outlined in detail in the Divisions which follow.

DIVISIONS OF INSTRUCTION

The following seven divisions are maintained at Union College:

I. Education
- Education
- Library Science

II. Fine Arts
- School of Music
- Art
- Dramatics and Speech

III. Health and Physical Education
- Health
- Physical Education

IV. Languages
- English
- French
- German

V. Religion and Philosophy
- Philosophy
- Religion

VI. Natural Sciences
- Biology
- Chemistry
- Environmental Studies
- General Science
- Home Economics
- Mathematics
- Physics

VII. Social Studies
- Business
- Economics
- Geography
- History
- Political Science
- Psychology
- Sociology
- Social Work

The course offerings in these divisions are listed in the order given above in the following pages. A student's background in a given discipline, and his willingness to work should determine the courses he chooses. If a student is not certain he has the background for a course, he should consult the instructor. 500 courses are for Graduate students only. Some courses, 400-499 can carry graduate credit.

Year courses, the first semester of which is prerequisite to the second semester, bear hyphenated numbers: 101-102; 321-322.

In courses with laboratory, the lecture and laboratory hours per week are shown in parentheses following the descriptive title thus: CHEMISTRY 111-112. GENERAL CHEMISTRY (3.2).

One semester hour credit indicates 15 weeks of one fifty-minute period lecture or two fifty-minute laboratory periods or the equivalent.

Applied music students who are music majors or music minors receive a minimum of sixty minutes of instruction per week regardless of level or credit. Students wishing to enroll for applied music lessons for elective credit will find that conditions may vary from semester to semester, depending on the teaching load in the School of Music. Students in this category will receive a minimum of thirty minutes of instruction per week and may receive more if conditions permit.

Division I:

Education

1. Education

Mr. Simms Mr. Boyd Miss Moore

Mr. Robbins Miss Miles

Objectives

1. To give the student a broad general education which will increase his insight into the social, natural, and ethical world in which he lives.
2. To build within the student desirable attitudes toward the world, his fellow man, and the teaching profession.
3. To help the student achieve and maintain mental and physical health.
4. To stimulate the student to think on increasingly mature levels.
5. To help the student to know and be able to apply the principles of good teaching and learning.
6. To help the student discover and develop his own individual competencies and aptitudes.

7. To help the student develop a consistent, coherent, and sustaining faith in God, and a dedication to the Christian way of life.
8. To help the student become increasingly competent in the skills of communication.
9. To stimulate the student to become intellectually curious so that his interest in learning may continue throughout life.

Application for Admission to Teacher Education Program. — Formal application for admission to the Teacher Education program must be filed with the Head of the Department of Education during the second semester of the sophomore year. Transfer students with junior standing and beyond should apply during their first semester in residence. These applications will be acted on by the Committee on Teacher Education. Application blanks may be secured from the office of the Head of the Department of Education or from the office of the Registrar.

A quality point standing of 2.20 is required for admission to the Teacher Education Program. A bulletin listing other criteria and the procedure for admission to the program as well as to student teaching may be secured from the office of the Head of the Department of Education.

Application for admission to the Teacher Education Program does not include an application for student teaching. A separate application for admission to student teaching must be filed with the Director of Student Teaching one full semester in advance of the time the Student Teaching is to be done.

Teacher Certification. — Members of the Department of Education will act as general advisors for those who plan to teach. Graduates of Union College who meet the requirements can secure the Provisional High School Certificate or the Provisional Elementary Certificate issued by the Kentucky State Department of Education.

Elementary Education Curriculum

1. *General Education*
   A. Humanities — 24 semester hours*
      English Composition ..... 6 hrs.
      Literature ..... 3 hrs.
      English Elective ..... 3 hrs.
      Art Elective ..... 3 hrs.
      Music Elective ..... 3 hrs.
      Electives from Literature, Fine Arts (Music, Art, Drama and Speech), Foreign Languages, Philosophy, and Religion ..... 6 hrs.

   B. Mathematics and Natural Science — 12 semester hours
      Biology, Chemistry, Mathematics, Physics, Physical Science.
      At least 4 semester hours shall be in the field of physical science, and at least 4 semester hours shall be in the field of biological science.

   C. Social Sciences — 12 semester hours
      History, Economics, Political Science
      Sociology, Geography

*No more than 6 hours in any one discipline.

II. General Requirements

A. School Music ..... 2 hrs.
B. School Art ..... 2 hrs.
C. Social Science Elective ..... 6 hrs.
D. Introduction to Psychology ..... 3 hrs.
E. Children's Literature ..... 3 hrs.
F. Math for Elementary School Teachers ..... 6 hrs.
G. Health and/or Physical Education ..... 3 hrs.

III. Professional Preparation

A. Human Growth and Development ..... 3 hrs.
B. Introduction to Education ..... 3 hrs.
C. Fundamental Processes and Learning Materials
   Methods of Teaching Mathematics ..... 3 hrs.
   Methods of Teaching Reading ..... 3 hrs.
   Methods and Materials in the Elementary School ..... 4 hrs.
D. Student Teaching ..... 10 hrs.

IV. Completion of the Baccalaureate Degree.

Secondary Education Curriculum

I. General Education

A. Humanities — 24 semester hours*
   English Composition ..... 6 hrs.
   Literature ..... 3 hrs.
   Fifteen semester hours selected from Literature, Fine Arts (Music, Art, and Drama, Speech), Foreign Languages, Philosophy, and Religion ..... 15 hrs.*

B. Mathematics and Natural Science — 12 semester hours
   Biology, Chemistry, Mathematics, Physics, Physical Science. At least 4 semester hours shall be in the field of physical science, and at least 4 semester hours shall be in the field of biological science.

C. Social Science — 12 semester hours*
   Twelve semester hours from Anthropology-Cultural, Economics, Geography, Government, History, Political Science, Sociological Foundations, Sociology, Western Civilization.

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*No more than 6 hours from any one discipline.

II. General Requirements for Students Preparing to Teach in Secondary Schools

A. Personal and Community Health ..... 3 hrs.

B. Majors, Minors, and Areas of Concentration*

An Area of Concentration ..... 48 hrs.

One Major of 30 semester hours ..... 30 hrs.

One Major of 30 and one Minor of 21 semester hours ..... 51 hrs.

Majors in subject combinations shall require 36 semester hours credit. In a combination of subjects for majors, not less than 12 semester hours shall be in each subject within the major. Method courses shall be in addition to these in the majors and minors.

III. Pre-professional preparation

Introduction to Psychology ..... 3 hrs.

Electives which may include such courses as Sociology, Anthropology, Psychology, Biology, Philosophy, etc. (These courses may have been completed as general education) ..... 9-15 hrs.

IV. Professional Preparation for Secondary Teachers

A. Introduction to Education ..... 3 hrs.

B. Human Growth and Development ..... 3 hrs.

C. Fundamental Processes and Learning Materials

Methods and Materials in Secondary School ..... 4 hrs.

D. Supervised Student Teaching in the Secondary School ..... 10 hrs.

NOTE: An average grade of "C" shall be required in all professional education courses.

V. Completion of the Baccalaureate Degree

1. Education

Education 241. Introduction To Education. Three Hours

The purpose and function of education. Classroom and school organization, guidance services, library services, evaluation, reporting to parents and other phases of the school program. First and second semesters.

Education 271. Elementary School Art.

(See Art 271).

Education 341. Methods of Teaching Mathematics in Elementary School. Three hours

Modern methods and materials for teaching mathematics in the elementary school. *Prerequisite:* Mathematics 203 or equivalent. Second semester.

Education 361. Methods of Teaching Reading Three hours

Best current practices in teaching children to read in the elementary school. Includes directed observation in the public schools. First Semester.

Education 373. Elementary School Music

(See Music 373).

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*Choose one of the three options listed.

Education 401G. Introduction to Counseling and Guidance.
(See Psychology 401G).

Education 432. Methods and Materials in the Elementary School. Four hours
Emphasis on language arts, social studies, and science; directed observation taken with Education 471, 472. *Prerequisites:* Education 241, 341, 361, and Psychology 351. 90 semester hours college credit; quality point standing 2.20, overall and at Union College; one semester residence and admission to the Teacher Education Program at Union College. No late registration.

Education 441G. Measurement and Evaluation. Three hours
Instruments and techniques for evaluating abilities, aptitudes, personality traits and interests will be examined, teacher-made evaluative instruments will be given special emphasis. Application of test results to vocational and educational guidance is to be stressed. (Also Psychology 441G).

Education 452. Methods and Materials in the Secondary School. Four hours
Current teaching methods, materials and innovations in the secondary school with directed observations. *Prerequisites:* Same as for Education 432, except with Education 341, 361 omitted. In addition, a quality point stand of 2.00 or above is required in areas of concentration, major, and minors.

Education 471, 472. Supervised Student Teaching in the Elementary School. Five hours
Laboratory experiences in working with children, teachers, and others in school and community. Supervision by a qualified classroom teacher. Taken with Education 432 for a period of 10 weeks. Transportation and meals paid by the students. Application to be made one semester in advance.

Education 472L, 482L. Laboratory Experiences in Education; Four or five hours
The substitute for student teaching. Considers current problems and trends in teaching with laboratory periods for construction of classroom materials. *Prerequisites:* two years of successful classroom teaching experience, Education 241 and 432 or 452, scholastic standing of 2.20 or above, completion of 90 semester hours; approval by the Committee on Teacher Education; one semester residence at Union.

Education 481, 482. Supervised Student Teaching in the Secondary School. Four or five hours
Under the direction of an experienced teacher, the student teacher directs the usual teaching activities in the classroom for 10 weeks in local public schools. Application should be made one full semester in advance of the time the teaching is to be done. *Prerequisite:* Completion of Education 452.

Education 495-496. Advanced Readings in Education. Three hours each
Open only to advanced students in the field of Education who wish to do intensive reading in a specific interest area. *Prerequisites:* Twelve semester hours of Education and permission of the Head of the Department.

Education 500. Review of Current Educational Literature. Three hours
The educational literature found in current educational publications, with particular stress on periodicals.

Education 501. History and Philosophy of Education. Three hours
Education in the United States. An analysis of the growth of various educational philosophies and the relation of these to modern educational practice.

Education 502. The Curriculum. Three hours
Curricular organization, materials, and methods. Techniques for evaluating and constructing curricula.

Education 503. Elementary School Curriculum Three hours
Curricular organization, materials, and methods currently used in elementary schools. Techniques for evaluating and constructing curricula.

Education 504. Secondary School Curriculum Three hours
Curricular organization, materials, and methods currently used in secondary schools. Techniques for evaluating and constructing curricula.

Education 510. Television and other Educational Media. Three hours
Gives practice in operating educational media and construction of classroom materials. Emphasis given to educational television use in the classroom.

Education 511. Educational Sociology. Three hours
Analysis of educational institutions in terms of the interaction of individuals and groups, educational processes, school and community relations, and the function of the educator as an agent of socialization.

Education 525. Psychology of Reading Through Supervision. Three hours
Basic concepts and principles of learning with its application to reading.

Education 530. Diagnostic and Remedial Procedures in Reading. Three hours
Current research findings in diagnostic and remedial procedures in reading. Techniques for applying diagnostic instruments for locating causes of serious reading deficiencies are developed along with suggested remedial procedures.

Education 532. Techniques and Materials for Remedial Reading. Three hours
Techniques and materials appropriate to the correction of reading difficulties. *Prerequisite:* Education 530.

Education 535. Practicum in Teaching Reading with Clinic. Three hours

Education 540. Introduction to Early Childhood Education. Three hours
Survey of the physical, emotional, mental, and psychological development of the child under six, and the role of the kindergarten teachers in working with such a child.

Education 542. Fundamentals of Kindergarten Education. Three hours
This course focuses primarily on kindergarten curriculum, materials, organization of the kindergarten program, creative experiences for the pre-school child, parent education and home visitation, understanding of families, community resources, planning learning experiences, and evaluation of pupil programs and progress. Direct observation and participation in the kindergarten setting.

Education 545. Practicum in Kindergarten Education. Three hours
This course offers direct, guided, supervised experiences with kindergarten children under the supervision of a qualified classroom teacher. This course also may be taken at the undergraduate level as part of the required Supervised Student Teaching.

Education 550. Improvement of Instruction. Three hours
Democratic school procedures and the methods for improving instruction, evaluation of means, methods, and results of action.

Education 555. The Principal. Three hours
An analysis of the building unit as a sub-system within a larger complex organization. Special emphasis on the changes in the role of the principal as a result of changes in society and in the schools.

Education 560. Supervision of Student Teaching. Three hours
Experiences deemed necessary for developing students into effective teachers are considered, with attention to participation in teacher-student conferences and planning and executing a work program. *Prerequisite:* one year teaching experience or consent of the instructor.

Education 561. Internship for the Supervising Teacher. Two-four hours
A followup course for Education 560, primarily in the field with part time on the campus in seminars, reports of action research with and about student teaching, honors reading, and evaluation. Open only to those who have had Education 560 and who have a student teacher during the course.

Education 570. Statistics in Education and Psychology. Three hours
Basic statistical course for research in education and psychology. Studies and practices in making distributions, computing measures of central tendency, variation and correlation.

Education 571. School Organization and Administration Three hours
Organization of the modern public school, an understanding of such problems as staff-teacher relationships, program of studies, teacher records and reports, personnel and public relations, utilization of teacher time and of physical facilities.

Education 580. Methods of Educational Research. Three hours
Types of research, selection of problems, collection and classification of data; organization, presentation, and interpretation of materials.

Education 595. Seminar in Educational Problems. Three hours
Guided study and research toward the solution of specific educational problems encountered by members of the seminar.

Education 599. Thesis. Six hours

Library Science

Mrs. Farr Mrs. Saddler

Designed to allow flexibility of interests; by pursuing prescribed hours, students may (1) Qualify as school librarians-21 hours (including L.S. 472), (2) Qualify for the library experience certificate issued by the Kentucky Department of Libraries, (3) Obtain the foundation courses necessary for admittance to a graduate library school, or (4) Substitute Library Science for a field of concentration for the degree of Master of Arts in Education.

Library Science 133. Information Aids to Learning One hour
A study of the techniques and basic tools of information research. Designed for undergraduates.

Library Science 410. Non-book Media. Three hours
(See Education 510). Offered only during summer sessions.

Library Science 413G. Organization and Administration of the School Library. Three hours
Designed to help beginning librarians organize and administer school libraries. Planning and managing the library; ordering and preparing materials for use; and work with students and teachers. Offered summers only.

Library Science 429G. Cataloging and Classification. Three hours
Emphasis on sufficient practice to enable students to handle cataloging in the average library situation. Dewey Decimal classification used and Anglo American cataloging rules followed. Offered only during summer sessions.

Library Science 433G. Reference and Bibliography. Three hours
Study of essential reference works according to function performed and area of subject specialization.

Library Science 439. Selection of Library Materials. Three hours
(See Library Science 539).

Library Science 455G. Books and Related Materials for Children. Three hours
A survey of children's literature designed to make the student familiar with a variety of children's books and other library materials suitable for supplementing the school curriculum and encouraging recreational reading in the elementary school.

Library Science 472G. Library Practice. Three hours
Observation and supervised practice in a school library combined with some seminar discussions. In-service teachers and in-service librarians should plan to take library practice in the first summer session. *Prerequisites:* Library Science 413, 429, 433, and 439.

Library Science 482G. Seminar in Library Practice. Three hours
Combining seminars with observations in the field. For persons with a valid teaching certificate and at least two years of teaching experience who are acting as school librarians. Requires special permission.

Library Science 510. Non-book Media. Three hours
(See Education 510). Offered only during summer sessions.

Library Science 539. Selection of Library Materials. Three hours
A general study of selection principles and methods, with emphasis on print and non-print materials as they interpret modern problems, and laboratory experience in utilization of selection aids.

Division II:

Fine Arts

1. Art 2. Dramatics and Speech 3. School of Music

1. Art

Mr. Upchurch

The Art Department offers courses to acquaint all students with art and its cultural role in a liberal education through the studio experience and the history of art.

The Art Department reserves the right to retain a maximum of two works of art from each student in each studio course.

Requirements for a Major in Art. Union College offers a major in Art that includes twenty-four hours earned at Union and six hours that must be earned elsewhere. The curriculum contains a core of eighteen hours, including Art Fundamentals (201, 202), six hours; Drawing and Painting (341, 342), six hours; and Survey of Art (373, 374), six hours. The remaining six hours to be taken at Union College and the content and nature of the six transferred hours must be the subject of agreement between the Art Department, the Chairman of the Division of Fine Arts, and the student concerned. In essence, this portion of the curriculum may be tailored to suit the student's interests and needs. As soon as such a program is agreed upon, it becomes an individualized curriculum for the student in question. Changes may be made only with the approval of all of the parties listed above. Exhibitions are required for all art majors. Details are available from the Department Head.

Requirements For a Minor in Art. Twenty-one semester hours including Art 495.

Art 132. Introduction to Art. Three hours
An introduction to Art outlining basic approaches, principles, techniques and media as well as styles of expression, both past and present.

Art 201-202. Art Fundamentals. Three hours
A study of the elements of art, the principles of design and form through experimentation of various media and techniques in the studio.

Art 271. Elementary School Art. Three hours
A studio course involving many kinds of art projects in many media; suitable and practiceable for elementary grades. (Also Education 271).

Art 341-342. Drawing and Painting. Three hours
A studio course working in various painting and drawing media, with major emphasis on oil media. Some work in three-dimensions. Emphasis on the creative approach. *Prerequisite:* Art 201, 202.

Art 373. Survey of Art: Ancient through Renaissance. Three hours
A survey of the development of western art from pre-historic times through the period of the High Renaissance.

Art 374. Survey of Art: Modern. Three hours
A survey of the development of western art from the end of the High Renaissance to the present.

Art 441. Advanced Studio. Three hours
Studio work in the various painting, drawing and three-dimensional media. Emphasis on the creative approach. *Prerequisites:* Art 201, 202, 341, 342.

Art 495. Special Problems in Art. Three hours

2. Drama and Speech

Mrs. Dontchos

The Fine Arts Division offers a major and a minor in Drama. Its objective is to give all students an opportunity to participate in dramatic productions and to acquaint both the college and the community with the social, religious, aesthetic, and intellectual expressions of the theatre. Its further objective is to train and enlighten interested students so that they may contribute intelligently to theatrical endeavors.

Requirements for a Major in Drama: 36 semester hours, including play production, six hours; acting, six hours; history of the theatre, six hours; speech, six hours; dramatic literature, six hours; directing, three hours; practical experience, three hours. Dramatic literature requirements may be met by taking any cross-listed literature course in which the subject matter or content is dramatic literature.

Requirements For a Minor in Drama: Twenty-one semester hours.

Drama 131. Introduction to the Theatre. Three hours
Basic principles underlying the origin and development of theatrical presentation. Brief study of elements of production.

Drama 151-154. Theatre Practicum. One hour
Actual practice in major college theatrical productions in the areas of acting, directing, and production work. Maximum of four hours toward graduation.

Drama 251. Fundamentals of Acting. Three hours
Theory and practice behind analysis and presentation of a role.

Drama 301. Pre-Modern Drama. Three hours
(See English 301).

Drama 302. Modern Drama. Three hours
(See English 302).

Drama 331. Play Production. Three hours
Study and practice in theatrical costuming and make-up. *Prerequisite:* Drama 131 or permission of instructor.

Drama 332. Play Production. Three hours
Study and practice in theatrical design and stage lighting. *Prerequisite:* Drama 131 or permission of instructor.

Drama 352. Advanced Acting. Three hours
Scene study and period styles of acting. *Prerequisite:* Drama 251 or permission of instructor.

Drama 363. Classical Drama in English. Three hours
Major Greek tragedies and comedies, Roman comedies and Seneca as influential literature and works for performance.

Drama 371-372. Shakespeare.
(See English 371-372).

Drama 381. History of the Theatre. Three hours
Theory and practice of theatrical presentation from Golden Age of Greece to Ibsen. *Prerequisite:* Junior or senior standing or permission.

Drama 382. History of Modern Theatre. Three hours
Theory and practice of theatrical presentation from Ibsen to present. *Prerequisite:* Junior or senior standing or permission.

Drama 452. Directing. Three hours
Study of analysis of scripts for production and of production techniques. Staging of one-act play required. *Prerequisite:* Permission from instructor.

Drama 495-496. Special Problems in Drama. One to three hours
Prerequisite: permission of instructor.

Speech 131. Fundamentals of Speech. Three hours
Study and practice in the basic elements of speech applicable in daily life, such as voice, articulation, pronunciation, bodily activity, habituation in good oral usage.

Speech 231. Interpretative Reading. Three hours
Analysis and oral interpretation of the various forms of literature. Special emphasis on developing qualities for interpretation of character, emotion, and artistic impersonation.

School of Music

Mr. Green *Mr. Campbell*

Mr. Gunderson *Mr. Dontchos* *Mr. Price*

Mrs. Johnson Mrs. Gunderson

The School of Music functions within the total academic structure of Union College and participates in the granting of the following degrees: Bachelor of Music (Applied Music or Music Education Major), Bachelor of Arts (major in music), and Bachelor of Science (major in music).

The purposes of the School of Music are: To offer intensive professional training to the music major and to provide the general college student with the opportunity to become acquainted with music as one aspect of a liberal culture, either as appreciative listeners or as trained participants; to prepare students for graduate study; as church organists and choirmasters; as private teachers of music; and as teachers of music for the public schools.

Admission. The requirements for admission to the School of Music are the same as for admission to the College in general, except statement No. 1 shall be supplanted by the following;

1. Write to the Director of the School of Music, Union College, Barbourville Kentucky, for Application for Admission forms.

Regulations. All academic regulations and other requirements and specifications of the Union College catalog will apply unless specific mention is made in the School of Music section of the catalog.

No Special Music Fees. No special fees exist for private lessons in music. Students majoring in other fields of study may avail themselves of class lessons in piano, voice, wind and stringed instruments. Upon sufficient advancement, these students also may receive private instruction without any special fee being charged.

Advanced Placement and Curriculum Acceleration. The School of Music recognizes that its students come with widely varying backgrounds and abilities. In the case of the student with a superior pre-college background in music, advanced placement by examination is possible. In addition, it is also possible for the outstanding student to accelerate his progress through the curriculum by opting for independent study. This process, however, places the responsibility for meeting curricular requirements squarely on the student. In the case of curriculum acceleration, a minimum of three years is required, principally to assure sufficient grounding in the applied music area. Permission of the Director of the School of Music and the student's major professor is required.

Final Examinations For Graduation. These Examinations, written and/or oral, shall be administered when the student and his advisor make such request of the School of Music. These shall be not earlier than three months nor later than two weeks prior to the completion of all work toward the degree.

Transfer Credit. Transfer credit will be accepted only upon examination. Examinations are given during orientation and registration periods of each semester.

Preparatory Department. Preparatory work in piano, wind, voice and stringed instruments is offered in the form of class or private lessons for pre-college students. There is a fee charged for these lessons. A similar arrangement is available for special students of college age and above who are not enrolled as full-time students in the regular curriculum.

Teacher Certification. The degree program in Music Education, leading to the Bachelor of Music, fulfills the Kentucky requirements for teacher certification. Kentucky teacher certification is reciprocal with many other states.

Piano Proficiency. All music majors must pass a proficiency examination in piano prior to graduation.

Ensemble Requirement. All majors are required to participate a minimum of seven semesters in one ensemble and a minimum of four semesters in another ensemble area.

Program Attendance. All applied students are required to attend all Monday afternoon recitals.

Majors. All majors are required to attend three-fourths* of the total number of programs. A year's work in the applied field is not complete until the recital requirements are fulfilled.

Minors. All minors are required to attend one-half* of the total number of programs.

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*The total number of programs is made up of all School of Music programs. Artist Series programs, and Southeastern Kentucky Concert series programs on campus. Recital attendance credit may also be obtained by attending Southeastern Kentucky Concert Series programs held off campus. Check the Dept. of Music bulletin board for the total number of programs for the current semester.

Others registered for applied music. Others registered for applied music must attend one-third of the total number of programs.

Music 373, 374, and Music 191-4. Recital attendance for students in Music 373-4 and Music 191-4 is at the discretion of the teaching staff.

Student Recitals. Student recitals will be held the third Monday of each month at 4:00 p.m. With the exception of first semester students, all applied students must perform a minimum of one time each semester.

Each student majoring in music presents a junior recital of at least thirty minutes performing time and a senior recital of at least forty-five minutes performing time.

Continuing Examinations. Examinations in seminar classes and tutorial instruction shall proceed at the request of the student and his faculty advisor, and will not necessarily occur in conjunction with the regularly scheduled examination periods of Union College. These examinations, administered by the students advisory committee, shall be both written and oral and when the student demonstrates mastery of a particular area of knowledge, he shall be permitted to proceed immediately to the next area.

Recital Examinations. Junior and Senior recital examinations shall be given no later than two weeks prior to the recital.

Music Library. The music library, located in the Fine Arts Building, contains records, scores, and listening facilities.

Minor in Music. Twenty-one semester hours, including: Music 161, 162; three semester hours selected from either Music 393 or 394; two semester hours of music electives; two years of ensemble; and completion of the 200s level of course numbering in one field of applied Music.

Music Major, B.A. and B.S.

Please see general requirements on page 16.

Academic Emphasis	*Sem. Hrs.*
Foundations of Music	8
Harmony and Ear Training	8
Form and Analysis	4
Music History	12
Applied Music	8
Ensemble	0
	40

Applied Emphasis	*Sem. Hrs.*
Foundations of Music	8
Harmony	6
Form and Analysis	4
Music History	6
Applied Music	16
Ensemble	0
	40

Bachelor of Music Degrees

Music Requirements. These requirements apply to the BM (Applied Music).

Academic	*Sem. Hrs.*
Foundations of Music	8
Harmony and Ear Training	8
Form & Analysis	4
Counterpoint	4
Music History	6
Applied Field Literature	4
	34

Applied	*Sem. Hrs.*
Major Applied Study	24
Recitals	2
Piano Secondary*	4
Stringed Instruments Class*	2
Instruments Class (wind)*	2
Voice Class*	1
Pedagogy	1
Ensemble	0
	36

Continued

Bachelor of Music Degrees

General Requirements. These apply to the BM (Applied Music).

	Sem. Hrs.
Humanities	12
English 111-112	6
Foreign Language	12
Science	4
Social Science	9
Electives	15
	58

Music Requirements. These apply to the BM (Music Education).

Academic	*Sem. Hrs.*
Foundations of Music	8
Harmony and Ear Training	8
Form & Analysis	4
Music History	6
Conducting	4
Secondary School Music	2
Orchestration	2
	34

Applied	*Sem. Hr*
Major Applied Study	1
Recital	
Piano Secondary*	
Stringed Instruments Class*	
Wind Instruments Class*	
Voice Class*	
Ensemble	
	2

*Certain of these may be waived or passed by examination if the skill involved coincides with the students Majo Applied study area. In this case the equivalent number of ensemble hours may be applied toward the total neede for graduation.

General Requirements. This includes both the regular college requirements listed on page 17 and the education Certification Requirements on page 75 for the musi education major. Music majors may use 9 hours of music to help fulfill humanitie requirements.

Course Offerings

The content of applied music courses outlined below is for the guidance of the student, and is therefore a flexible, rather than a rigid description of the requirement The letter S following a course numbering indicates that the course is for students other than those enrolled in the Bachelor of Music Curriculum, or is a secondary applied field for music majors.

Applied Music

Music 101S-102S. Organ, Secondary. One or two hours
Manual and pedal technique, pedal scales, easy compositions for manuals with pedal, Gleason Organ Method.

Music 201S-202S. Organ, Secondary. One or two hours
Pedal scales and technique, Gleason Organ Method; Short Preludes and Fugues, Bach.

Music 301S-302S. Organ, Secondary. One or two hours
Pedal scales and technique, Gleason Organ Method; Chorales from the Orgelbuchlein, Bach; Mass for the Convents, Couperin.

Music 401S-402S. Organ, Secondary. One or two hours
Pedal scales and chords; larger preludes and fugues, Bach; pre-Bach compositions; easier pieces of Brahms and Franck.

Music 101-102. Organ. Two or three hours
Gleason Organ Method; Bach, Short Preludes and Fugues, Orgelbuchlein; F. Couperin, Mass for the Convents; Vierne, Twenty-four Pieces in Free Style. Co-requisite: Piano 111S-112S.

Music 201-202. Organ. Two or three hours
Continued work in Gleason Organ Method; Bach, easier preludes and fugues; pre-Bach composers; Brahms, Chorale Preludes; Franck, easier pieces. Co-requisite: Piano 211S-212S.

Music 301-302. Organ. Two or three hours
Bach, larger preludes and fugues such as B minor; compositions by earlier composers such as Buxtehude and Grigny; Hindemith, Sonatas, contemporary French composers such as Messiaen, Alain, Langlais.

Music 307. Junior Recital. Zero or one hour

Music 401-402. Organ. Two or three hours
Bach, Sonatas and larger preludes, fantasias, toccatas, preludes and fugues; Franck, Chorales; larger works of Messiaen, Langlais, Dupre and others.

Music 405-406. Organ Literature. Two hours
The development of the organ and its literature since the fourteenth century. Emphasis is placed on the close relationship of the construction of the instrument and the forms of its literature.

Music 407. Senior Recital. Zero or one hour

Music 111S-112S. Piano, Secondary. One or two hours
Major and minor scales, arpeggios in inversions, two octaves. Technical studies as Kohler, Opus 157 and 242; Bach-Carroll, Bk. 1; Sonatinas (Clementi, Opus 36); Schumann, Opus 68; Chopin, Opus 28; Contemporary Music.

Music 211S-212S. Piano, Secondary. One or two hours
Major and minor scales, arpeggios, dominant, and diminished seventh with inversions, four octaves. Czerny, Opus 636; Bach, Two-Part Inventions; Schumann, *Kinderscenen;* Beethoven Sonatas, Opus 49; Contemporary Music.

Music 311S-312S. Piano, Secondary. One or two hours
See Music 111-112.

Music 411S-412S. Piano, Secondary. One or two hours
See Music 211-212.

Music 111-112. Piano. Two or three hours
Major and minor scales and arpeggios four octaves, parallel and contrary motion; Czerny, Opus 299; Bach, Three-Part Inventions; Sonatas by Haydn, Mozart, and Beethoven; Compositions of Romantic and Contemporary Composers.

Music 211-212. Piano. Two or three hours
Major and minor scales in thirds, sixths, and tenths; arpeggios, dominant, and diminished sevenths. Czerny, Opus 740; Bach, WTC 1; Sonatas by Mozart and Beethoven; Romantic, Impressionistic and Contemporary compositions.

Music 311-312. Piano. Two or three hours
Scales in double thirds. Chopin Etudes; Bach, WTC II and larger works. More difficult Romantic, Impressionistic and Contemporary compositions.

Music 317. Junior Recital. Zero or one hour

Music 411-412. Piano. Two or three hou
Chopin Etudes; a standard concerto; Material for a Senior Recital including on large Romantic composition.

Music 413-414. Sight Reading & Accompanying. One hou
Proficiency in reading the various clefs, vocal scores, and accompaniments, wit an emphasis on sensitive accompanying.

Music 415-416. Piano Literature. Two hour
A survey of the development of keyboard music.

Music 417. Senior Recital. Zero or one hou

Music 121S-122S. Voice, Secondary. One or two hour
See Music 121-122.

Music 221S-222S. Voice, Secondary. One or two hour
See Music 221-222.

Music 321S-332S. Voice, Secondary. One or two hour
See Music 321-322; except less extensive repertoire is required.

Music 421S-422S. Voice, Secondary. One or two hour
See Music 421-422; except less extensive repertoire is required.

Music 121-122. Voice. Two or three hours
Principles of posture, breathing, tone focus, diction, phrasing, and interpretation Repertoire: songs in English; songs of old Italian and French masters; folk songs

Music 221-222. Voice. Two or three hours
Continuation of Music 121-122.

Music 321-322. Voice. Two or three hours
Advanced technical problems. Repertoire: German lieder; French, English, and American art songs; opera and oratorio arias; contemporary song literature.

Music 327. Junior Recital. Zero or one hour

Music 421-422. Voice. Two or three hours
Continuation of Music 321-322.

Music 425-426. Voice Literature. Two hours
Vocal literature and style in German lieder, contemporary English and American Art Song, French melodies, Elizabethan and Baroque Songs and Sacred Solo Songs including a study of language pronunciation.

Music 427. Senior Recital. Zero or one hour

Violin, Viola, Cello or Bass.
The course outline is for violin study. A similar outline exists for other instruments.

Music 131S-132S. Violin, Secondary. One or two hours
Basic violin fundamentals, left and right hand positions, posture, major and minor scales and arpeggios in the first position. Studies: Wolfhart and Sitt. Repertoire: Graded solo material of minimum difficulty.

Music 141W-142W. Clarinet. Two or three hours
Rudiments of tone production and technique; Rose, 40 Studies, Bk. I. Selected studies from Klose Method. Memorize major and minor scales. Voxman, Concert and contest collection; Anderson-Waln, Scherzino.

Music 241-242. Clarinet. Two or three hours
Selected studies from Klose, Cavallini, Rose and Baermann. Bach-Simon, Solos and Duets; Bonade, Modern French Concour Solos; Debussy, Premier Rhapsody; Mozart, Adagio from Concerto for Clarinet.

Music 341W-342W. Clarinet. Two or three hours
Kroepsch, Daily Studies, Bk I & II. Selected studies from Rose, 40 Studies, Bk. II; Baermann Method, Bks III & IV; Jean-Jean, 18 Etudes. Webster Concertino; G. Finzi, Five Bagatelles.

Music 347W. Junior Recital. Zero to one hour

Music 441W-442W. Clarinet. Two or three hours
Selections from Masterworks for Clarinet (Schirmed ed.); Perier, Vingt-Deux Etudes; Gabucci Studies. Study of Orchestral Literature. Brahms Sonata, Op. 120, No. 1; Mozart Concerto for Clarinet.

Music 445W-446W. Woodwind Literature. Two hours
Clarinet literature from the various periods with special attention to stylistic detail and ornamentation.

Music 447W. Senior Recital. Zero or one hour

Trumpet, French Horn and Other Brass Instruments.
The course outline is for trumpet study. A similar outline exists for other brass instruments.

Music 141S-142S. Trumpet Secondary. One or two hours
Basic problems of tone production and technique; scales, arpeggios and appropriate graded literature.

Music 241S-242S. Trumpet Secondary. One or two hours
Continuation of 141S-142S.

Music 341S-342S. Trumpet Secondary. One or two hours
See Music 141B-142B.

Music 441S-442S. Trumpet Secondary. One or two hours
See Music 241B-242B.

Music 141B-142B. Trumpet. Two or three hours
Concentration on tone production and style. "C" Transposition, representative etudes and solo literature.

Music 241B-242B. Trumpet. Two or three hours
Tone production as a simple procedure carried into more difficult music, including etudes and solos; transpositions D, Eb, E, F and A.

Music 341B-342B. Trumpet. Two or three hours
Emphasis on the tone, production, style and transposition, including etudes to be transposed in C, D, Eb, E, F and A Trumpet.

Music 347B. Junior Recital. Zero to one hour

Music 441B-442B. Trumpet. Two or three hours
Advanced literature emphasizing style, tone, and transpositions.

Music 445B-446B. Brass Literature. Two hours
A study of the literature, both solo and ensemble, for the principal and related brass instruments with attention to stylistic detail and ornamentation.

Music 447B. Senior Recital. Zero or one hour

Ensembles

Music 151. Chorus. Zero or one hour
Open to all college students; performs major choral works in concert. One rehearsal per week. May be repeated for credit.

Music 152. Choir. Zero or one hour
Open by audition only; performs in chapel, Christmas concert, yearly tour, spring concert, graduation. Limited to forty-nine students; four rehearsals per week.

Music 154. Concert Band. Zero or one ho
Open to all those interested in band music. Two rehearsals per week. May b repeated for credit.

Music 156. Collegium Musicum. Zero or one ho
Open to interested students. A performance group intended to give the stude acquaintance with less frequently performed literature. One rehearsal per wee

Music 157. Small Ensembles. Zero or one ho
Instrumental and vocal ensembles varying in size and type according to th needs and interests of the students enrolled. May be repeated for credit.

Music 157-A. Stage Band.

Music 157-B. Brass Ensembles.

Music 157-C. Woodwind Ensembles.

Music 157-D. Percussion Ensemble.

Music 357. Opera Workshop. Zero or one hou
Experience in the standard and contemporary opera repertoire; preparation an presentation of complete operas and programs of excerpts, with costumes an scenery. Admission by audition only. May be repeated for credit.

Theory

Music 161-162. Foundations of Music. Four hour
A combined course in the areas of music theory, history, and literature. Fiv periods per week.

Music 261-262. Harmony. Three hour
Continuation of Music 161-162 in the area of part-writing and analysis. Advance chromatic harmony of the middle Romantic period. Keyboard harmony includ ed. Three periods per week. *Prerequisite:* Music 162.

Music 263-264. Ear Training. One hou
Sight singing, ear training, and dictation to be taken concurrently with Musi 261-262. Two periods per week. *Prerequisite:* 162.

Music 361-362. Form and Analysis. Two hour
The development of musical forms from small units to large. Study of large scal analytic techniques including those necessary for late 19th and early 20th Centu ry Music. *Prerequisite:* Music 262.

Music 365. Music Arranging. Two hour
Basic techniques of orchestration and arranging. *Prerequisite:* Music 262.

Music 461-462. Counterpoint. Two hour
The vocal counterpoint of Palestrina and the instrumental counterpoint of Bach *Prerequisite:* Music 162.

Music 463. Theory Seminar. Three hour
An advanced course in music theory, including a study of contemporary prac tices. *Prerequisite:* Music 362, and permission of the instructor. Offered upo sufficient demand.

Music Education

Music 171-172. String Instruments Class. One hou
Class instruction in String instruments.

Music 173-174. Piano Class. One hou
Class instruction in piano.

175-176. Wind and Percussion Instruments Class. One hour
Class instruction in woodwind, brass, and percussion instruments.

177-178. Voice Class. One hour
Class study for students who are not prepared to study at the level of private applied voice.

373. Elementary School Music. Three hours
Methods and materials in the elementary school. Will include functional ability at the piano keyboard, the fundamentals of music, and library research. (Also Education 373).

374. Secondary School Music. Two hours
Methods and materials for junior and senior high school. Will include research projects. *Prerequisite:* Junior standing in the School of Music or permission of the instructor.

473-474. Conducting. Two hours
Basic techniques of the art of conducting; score reading, both vocal and instrumental; rehearsal techniques; balance and interpretation; organization; survey and study of literature; practical work with ensembles.

475A, B, C, D, E, F, G. Pedagogy. One hour
Techniques and principles of private and class instruction with examination of carefully considered and recommended materials.
A-Organ; B-Piano; C-Voice; D-Strings; E-Woodwind; F-Brass; G-Percussion.

History and Appreciation

191. Introduction to Music. Three hours
A study of musical materials and styles for the liberal arts student with a limited musical knowledge. Not open to music majors or music minors.

192. Introduction to History of American Popular Music. Three hours
A historical approach involving the study of styles and personalities beginning with the origins of jazz and ending with the current trends and concepts of today. Open to all students.

193. Introduction to American Music. Three hours
A study of serious American music from the Pilgrims to the present with emphasis on the music of the 20th century for the liberal art student. Open to all students.

194. Introduction to the History of Church Music. Three hours
The history and function of Western Church music from ancient Judaism through contemporary usage. Open to all students.

393-394. Music History. Three hours
(393) Antiquity through Classic period; survey of literature including outstanding reading and listening.
(394) Romantic period through 20th Century.

493-494. *Two or three hours*
Independent study in the area of Music History. Major paper required. *Prerequisite:* Music 393-394.

495-496. Music Research Seminar. Three hours
Independent research on an approved project. *Prerequisite:* Permission of the student's major professor.

Division III:
Health and Physical Education

1. Health *2. Physical Education*

Mr. Moore Mr. Sommer Miss Patridge

Mr. Calitri Mrs. Hacker Mr. Erslan

Objectives

1. To give the student a broad view into the field of Health and Physic Education.
2. To develop the student socially.
3. To teach the student physical skills and abilities so that he may enj worthwhile activities.
4. To develop an understanding and appreciation of techniques ar strategies of sports.
5. To prepare the student for leisure time.
6. To eliminate or diminish stress and worry through exercise ar sports.
7. To develop safety skills.

A maximum of eight semester hours of service courses may be credited towa graduation. Physical education majors must take four service courses, and this is t maximum that can be applied to a major.

Students who are preparing to teach in an elementary or secondary school Kentucky are required by the State Board of Education to complete the followir courses: for an elementary school certificate, Health and Physical Education 261; for secondary school certificate, Health 280.

Requirements For a Major in Physical Education. Thirty semester hours, whic must include Physical Education 351 and 421.

Requirements For a Minor in Physical Education. Twenty-one semester hou which must include Physical Education 351, and 421.

Requirements For a Minor in Health. Twenty-one semester hours which mu include Health 340, but not include Health 280.

Service Courses

111	Beginning and Intermediate Swimming	121W	Team Sports for Women
113	Senior Life Saving	122M	Team Sports for Men
131	Archery and Badminton	135	Tumbling and Trampolining
132	Beginning Golf	141	Folk Dancing
133	Beginning Tennis	142	Social Dancing

155 Horsemanship

The above required courses meet the equivalent of two periods a week for one semeste hour credit.

1. Health

alth 212. American State and Local Government. Three hours
(See Political Science 212).

alth 231. First Aid and Safety. Three hours
Designed to aid the student in developing an understanding of the basic principles of accident prevention as applicable to the home, the highway, and the school. Special attention is directed to first aid and measures for various injuries and illnesses.

alth 271. Marriage and the Family. (see Sociology 271.) Three hours.

alth 280. Personal and Community Health. Three hours
The relation of bodily functions to personal health and grooming and to community and national health.

alth 300. Man and His Environment. Four hours
(See Environmental Studies 100/300).

alth 311. Human Ecology. Three hours
(See Sociology 311).

alth 321. History and Principles of Health Education. Three hours
A background of health and the development of school health education. Underlying principles of the present day school health program.

alth 330. School Health Practices. Three hours
A course dealing with the primary phases of school health — health instruction, health services, and healthful school environment — and how they can be coordinated into a functional health program.

alth 340. Physiology and Anatomy. Three hours
Basic instruction in the functioning of the cells, organs, and systems of the human body.

alth 391. Principles of Nutrition. Three hours
(See Home Economics 391).

alth 411G. Health Education in the Secondary School. Three hours
The experiences, activities and instruction of secondary students that lead to intelligent self-direction of health behavior.

alth 421G. Community Health. Three hours
The social and cultural factors, the physical environment and the health agencies and services as they relate to the health of the community.

alth 430G. Social Psychology. Three hours
(See Psychology 430G).

ealth 431G. Mental Health. Three hours
(See Psychology 431G).

ealth 451G. School and Community Health Workshop. Three hours
Reveals the relationship needed between the school and community to promote the total health of the population. Speakers are secured from official agencies, voluntary agencies, professional agencies, sponsored agencies, and other colleges. Small groups are utilized for discussions, field trips and study through audio visual aids.

Health 452G. Abnormal Psychology. Three hou
(See Psychology 452G.)

Health 471G. Microbiology. Four hou
(See Biology 471G).

Health 481G. Epidemiology: General Principles. Four hou
(See Biology 481G).

Health 485G. Critical Areas in Health. Three hou
Specific health problems confronting society today with particular reference t secondary age students.

Health 492. Field Experiences in Health. Three hou
A directed field experience in some phase of health, with consideration give to both the needs and interests of the student. Opportunities will be availab for practical experiences in the school situation, official health agencies, an voluntary health agencies.

Health 495-496. Problems in Health. One to three hou
Independent study for advanced students only.

Health 511. The School Health Program. Three hou
Administrative arrangements found in school health programs and the utilizatio of administrative techniques and school personnel in conducting an efficier health program.

Health 541. Scientific Foundations of Health Education. Three hou
A study of the scientific aspects of health as they relate to personal, family, an community health.

Health 551. Readings in Health. Three hou
A course enabling the student to read literature in the area of health, not on to increase his basic knowledge, but to acquaint him with the current trends an issues that are prominent at the time.

Health 592. Environmental Workshop. Three hou
(See Environmental Studies 592).

Health 595. Problems in Health Education. Three hou
Independent study in the field of health. Could include practical field exper ences.

2. Physical Education

Physical Education 241. History of Physical Education. Two hou
From primitive man through the present, with particular emphasis on Gree physical education, European systems, and development of physical educatio in America. Some research into the history of various sports.

Physical Education 261. Health and Physical Education in the Elementary School. Three hou
The role of the classroom teacher in physical education — on the playgroun in the gymnasium, and classroom. How to correlate and evaluate. The applicatio of games, movement, exploration, rhythms, and self-testing activities, an screening tests.

Physical Education 271. Sports Officiating. Two hou
Rules and officiating techniques in football, basketball, baseball, and track.

Physical Education 291. Principles of Dance. Two hou
Elementary rhythms, folk, square, social, and modern dance.

Physical Education 301. Coaching Football. Two hou

ysical Education 302. *Coaching Baseketball.* Two hours

ysical Education 303. *Water Safety Instruction.* Two hours
Prerequisite: Senior Life Saving (113).

ysical Education 304. *Coaching Baseball.* Two hours

ysical Education 305. *Coaching Track and Cross Country.* Two hours

ysical Education 317. *Organization and Administration of Intramurals.* Three hours
Planning, organizing, and directing a program of intramural activities for men and women. Attention is given to activities, awards, officials, finances, publicity, and other factors necessary to consider in administering an intramural program.

ysical Education 320. *Adapted Physical Education.* Three hours
Health conditions which require the physical education program to be adapted to meet the special needs of the atypical student.

ysical Education 321. *Recreational Leadership.* Three hours
Leadership techniques in music, social games, arts and crafts, dramatics, camping, nature and sports. Designed to aid students in enriching their own leisure time and to prepare for leadership in teaching, full-time Christian service, and social service.

ysical Education 351. *Tests and Measurements in Physcial Education.* Three hours
Evaluating physical education students by the construction and administering of tests. Places emphasis on reliability, objectivity, and validity of tests, and the use of test results, motivation and school marks.

ysical Education 361. *Organization and Administration of Physical Education.* Three hours
Administration of health and physical education in school. Setting up program, and evaluating results. Emphasis is given to budget and finance, office management, preparing the curriculum, facilities, legal factors, and public relations.

ysical Education 421. *Anatomy & Kinesiology.* Three hours
An analysis of human motion and its relation to athletic and gymnastic activities; practical application of these principles.

ysical Education 435. *Coaching and Officiating Team Sports (Women).*
Theory and practice of techniques employed in field hockey, basketball, volleyball, softball, and soccer, with emphasis on methods of teaching.

ysical Education 436. *Individual and Dual Sports for Women.* Three hours
Theory and practice of techniques employed in archery, badminton, golf, and tennis, with emphasis on methods of teaching.

ysical Education 491. *Seminar in Conducting Physical Activities.* Three hours
Seminar of the problems involved in the teaching of physical skills in the required program with an opportunity to gain practical experiences.

ysical Education 495-496. *Problems in Physical Education.* One to three hours
Independent work for advanced students only.

Division IV:

Languages

1. English 2. French 3. German

1. English

Mr. Merchant Mr. Zuger Mrs. Hisle

Miss Carter Mr. Stallcup Mrs. Townsend

The general aims of the Department of English are: 1. To guide the student learning to write clear, coherent, acceptable, and effective English; and 2. To assist student in broadening his understanding and enjoyment of language and literatu more fully appreciating his cultural heritage, developing a basis for intelligent critici and building a foundation for possible future study in the field.

Requirements For a Minor. A minimum of twenty-four semester hours includ 111, 112. This must include: six hours of English literature survey; American literat survey 341; three hours of Shakespeare: 371 or 372; and one genre course chosen fr 301, 302, 351, 352, 363, 451G, and 461G.

Requirements For a Major. A minimum of thirty semester hours in addition to 1 112, including the department requirements noted for Minors; three hours of linguis study: 401G or 421G; and one seminar (an advised 400G course chosen from 411G, 45 461G, and 482G). English majors are also advised to take at least six hours of a fore language.

Requirements For an Area. Forty-eight hours, thirty of which shall satisfy requirements for a major and including an advanced writing course, a course in liter criticism, and courses in speech or drama.

Students preparing to teach high school English should elect the English ma English minors who expect Department recommendation for teacher training sho consult the Department Head about their individual needs for advanced courses.

A general prerequisite for 200 level courses and above is the successful comp tion of English 111, 112. A general prerequisite for 300 level courses is the succes completion of English 221, 222, or consent of the head of the department.

English 110. Elementary Freshman Composition. Three ho
A course in basic writing skills of progressing complexity beginning with t sentence and ending with the theme. Must be followed by English 111.

English 111. Freshman Composition. Three ho
Writing of descriptive, expository, and argumentative themes and document papers. Study of the essay and short story. Must precede English 112.

English 112. Freshman Composition, continued. Three ho
Longer themes emphasizing critical writing and documentation. Study of pro fiction, drama, and poetry with concentration on literary form and the interpre tion of literature.

English 221-222. Survey of English Literature. Three hours each
From *Beowulf* into the 20th century. The first half includes the Middle Ages and Renaissance and the second starts with the Neo-classical and continues through the Romantic and Victorian periods. Either course may be taken separately and not necessarily in sequence.

English 301. Golden Age of English Drama. Three hours
The development of the English drama from its origins in the Middle Ages through the Renaissance to the closing of the theatres, exclusive of Shakespeare. (Also Drama 301).

English 302. Modern Drama. Three hours
A survey of world drama from Ibsen to the contemporary, emphasizing but not limited to the continental European and in translation where necessary. (Also Drama 302).

English 311. Junior Composition. Three hours
An advanced course which may be taken instead of English 112 to fulfill the college's composition requirement. Assignments will deal either with literature or with issues of contemporary interest. Longer themes emphasizing thoughtful writing and documentation. *Prerequisites:* Junior standing and English 111.

English 312. Sixteenth Century Literature. Three hours
A study of the non-dramatic prose and poetry of the early Renaissance stressing the achievement and influence of figures like Sidney and Spenser.

English 331. English Romantic Period. Three hours
The prose and poetry of the first third of the 19th century, emphasizing the work of Wordsworth, Coleridge, Byron, Shelley, and Keats.

English 332. Victorian Period. Three hours
Major poets and prose writers, emphasizing the contributions of such masters as Tennyson, Browning, and Arnold.

English 341-342. Survey of American Literature. Three hours each
The first half extends from the colonial writers through Whitman and the second from Dickinson to the mid-20th century. Either course may be taken separately and not necessarily in sequence.

English 350. General Linguistics. Three hours
An introduction to the synchronic approach to linguistics, general American dialectology, theories of speech origin, and social, psychological, and applied linguistics.

English 351. The English Novel. Three hours
The historical study of the growth of the novel as a form, with selected examples from Defoe through Hardy.

English 352. The American Novel. Three hours
From the "American Renaissance" of the 19th century through the rise of realism to Faulkner and more recent developments.

English 355. Survey of Children's Literature. Three hours
Designed to familiarize the student with books and other library materials suitable for supplementing the curriculum and encouraging recreational reading in the elementary school. (Cannot be used toward humanities general requirement, major, minor, or area in English.)

English 363. Classical Drama in English. Three hours
Major Greek and Roman tragedies and comedies and their enduring relevance and influence. Comment on their social, religious, philosophical, and aesthetic implications. (Also Drama 363).

English 364. Medieval Literature. Three hours
A comparative study of the major works of the European Middle Ages. Emphasis will be placed on the courtly love tradition, the Germanic Epic, and development of the Arthurian Romance. (Also German 364).

English 371-372. Shakespeare. Three hours eac
An intensive and critical study of selected plays, focusing on their timele human, literary, and dramatic qualities. The first half is devoted to the histori and comedies and the second to the tragedies, romances, and "problem" play Each course may be taken separately and not necessarily in sequence. (Als Drama 371-372).

English 381. Seventeenth Century English Literature Three hou
The poetry of the metaphysicals, the cavaliers, Jonson, and Marvell. The prose Bacon, Burton, Browne, and others.

English 382. Neo-classical English Literature. Three hour
Prose and poetry of the Restoration and 18th century from Dryden throug Samuel Johnson.

English 395. Literary Criticism. Three hou
A comparative or historical study of different interpretations of literature. De signed to illustrate how critical reactions vary with time, place, and approach an to help sharpen the student's own powers of literary analysis.

A general prerequisite for 400 level courses is Junior standing.

English 401G. Theory of Grammar. Three hou
A study of the prescriptive and modern descriptive theories of syntax and of bot the definitions and uses of "grammar." Required for teachers.

English 402G. Advanced Composition. Three hou
For the student who wishes to become a more competent writer. Researc papers, factual narratives, argumentation, and "creative" writing are assigne according to the needs and aptitude of the student.

English 411G. Chaucer. Three hou
A study of selected works of Geoffrey Chaucer and his literary milieu in Middl English. Recommended for graduate students.

English 421G. History of the English Language. Three hou
A study of the growth and structure of the English language from the Anglo Saxon period to the present. Required for teachers and graduate students.

English 451G. Contemporary Poetry. Three hou
American and British poetry, with consideration of ways of reading, criticizing and writing verse in this century.

English 461G. The Contemporary English Novel. Three hour
Novelists of the twentieth century from Conrad. Emphasis on the formal devel opment of the novel and its psychological explorations in Joyce. *Prerequisites* English major or consent of the instructor.

English 482G. Milton. Three hour
The English poetry and selected prose of one of the three great figures of Englisl literature, studied within the context of the late Renaissance and the emergenc of Puritanism. Recommended for graduate students.

English 490G. Composition for Teachers of English. Three hour
Designed to train teachers of secondary school English composition and t indirectly improve the writing of their students. The instructor will utilize th contributions of his colleagues. Required for certification to teach secondar English.

English 495-496G. Readings in Literature. Three hours eac
Intensive individual work, under supervision, in some phase of English, Ameri can, or world literature, linguistics, or composition not otherwise covered in th curriculum. *Prerequisites:* Twenty-four hours of English above English 111, 112 and permission of the head of the department.

English 521 through 552 may each be taken more than once providing that the course content is different. The class schedule will designate the specific content covered.

nglish 521. Advanced Study of English Literature, 500-1700. Three to nine hours
Intensive study of some phase of English literature within this period.

nglish 522. Advanced Study of English Literature, 1700-Present. Three to nine hours
Intensive study of some phase of English literature within this period.

nglish 541. Advanced Study of American Literature, 1600-1860. Three to nine hours
Intensive study of some phase of American literature within this period.

nglish 542. Advanced Study of American Literature, 1860-Present. Three to nine hours
Intensive study of some phase of American literature within this period.

nglish 552. Advanced Study in Linguistics. Three to nine hours
Intensive study of some phase of linguistics depending on the needs and interests of the student.

nglish 565. Advanced Problems in High School English. Three hours
Research in problems of literature, language, or composition in secondary school classes including evaluation of literature in the field.

nglish 566. Research in Problems of Teaching English Literature. Three hours
A thesis, or several studies of methods and materials in junior or senior high school or junior college classes.

nglish 581. Research Project in Literature, English. Three hours
A thesis on the language, aesthetic, social effects or methodology of teaching a major work of British literature from Anglo-Saxon times to the present.

nglish 582. Research Project in Literature, American. Three hours
A thesis on the "Americanism" in language, social origin, or methodology of teaching a major work of American literature, from Captain John Smith to the present.

nglish 599. English Concentration Thesis. Six hours
Under direction of a thesis master and with approval of a departmental committee, preparation of a research or critical thesis on an aspect of literature, language, composition, or the teaching of any of these.

2. French

Mrs. Hamilton

The Department hopes to provide the basis for an understanding of France and er culture, as well as a basic knowledge of the French language. All students of French e required to attend the language laboratory regularly. Students offering more than ne entrance unit in French and students transferring from other colleges should conlt the Head of the Modern Language Department before registering for any course French.

Requirements for a Major. Twenty-four semester hours, including French 341. hirty semester hours recommended.

Requirements for a Minor. Twenty-one semester hours.

French 111-112. Elementary French. Three hou
Basic French grammar; practice in the oral and written language.

French 201. Elementary French Conversation. One ho
Practice in speaking and understanding standard modern French.

French 211-212. Intermediate French. Three hou
More detailed study of grammatical structure; study of important literary worl individual collateral reading. *Prerequisite:* French 111-112 or equivalent.

French 331. French Civilization. Three hou
The economic, social, and cultural development of France; French contributio to world civilization. May not count toward fulfillment of the language requir ment but may be counted on a major or minor. No knowledge of French r quired. Offered on sufficient demand.

French 341. History of French Literature. Three hou
A chronological survey of French literature with extensive collateral reading Required of all French majors. *Prerequisite:* Permission of the instructor. Offer on sufficient demand.

French 361-362. Advanced Grammar, Composition, and Conversation.
Prerequisite: Permission of the instructor. Offered on sufficient demand.

French 411-412. The French Novel. Three hou
The history of the French novel from the seventeenth century to the preser *Prerequisite:* Permission of the instructor. Offered on sufficient demand.

French 421. French Poetry. Three hou
A survey of French poetry of the sixteenth to twentieth centuries, with analys of representative works. *Prerequisite:* Permission of the instructor. Offered c sufficient demand.

French 431-432. The French Theatre. Three hou
Survey of the principal works of the French theatre from Corneille to the preser *Prerequisite:* Permission of the instructor. Offered on sufficient demand.

French 491-492. Honors Program in French
Maximum of four hours per semester; only by permission of Department Hea

French 495-496. Readings in French Literature. Three hou
Open only to students capable of a considerable amount of independent rea ing. *Prerequisite:* Permission of the instructor.

3. German

Mr. Marigold

The Department provides the basis for an understanding of Germany and i culture as well as a basic knowledge of the German language. All students of Germa are required to attend the language laboratory regularly. Students offering more tha one entrance unit in German and students transferring from other colleges shoul consult the Head of the Modern Language Department before registering for any cours in German.

Requirements for a Major. Twenty-four semester hours, including German 34 Thirty semester hours recommended.

Requirements for a Minor. Twenty-one semester hours.

German 111-112. Elementary German. Three hou
Basic German grammar; simple reading; practice in the oral and written lar guage.

erman 211-212. Intermediate German. Three hours
More detailed study of grammatical structure; reading of important literary works; individual collateral reading. *Prerequisite:* German 111-112 or equivalent.

erman 331. German Civilization. Three hours
The economic, social, and cultural development of Germany; German contributions to world civilization. May not count as part of the language requirement but may be used as part of a major or minor. No knowledge of German required. Offered on sufficient demand.

erman 341. History of German Literature. Three hours
A chronological survey of German literature with extensive collateral readings. Required of all German majors. *Prerequisite:* Permission of the instructor.

erman 361-362. Advanced Grammar, Composition. Three hours
Prerequisite: Permission of the instructor. Offered on sufficient demand.

erman 364. Medieval Literature. Three hours
(See English 364).

erman 411-412. The German Novel and Short Story. Three hours
The development of the German novel and the Novelle from the seventeenth century to the present. *Prerequisite:* Permission of the instructor. Offered on sufficient demand.

erman 421. German Poetry. Three hours
Analysis of selected works from the German poetry of the seventeenth to twentieth centuries. Collateral reading and lectures will provide a survey of the field. *Prerequisite:* Permission of the instructor. Offered on sufficient demand.

erman 431-432. The German Theatre. Three hours
Survey of the principal works of the German theatre from Lessing to the present. *Prerequisite:* Permission of the instructor. Offered on sufficient demand.

erman 441. Goethe. Three hours
Detailed study of *Faust*. Lectures and assigned readings cover the chief works of Goethe and his principal contemporaries. *Prerequisite:* Permission of the instructor. Offered on sufficient demand.

erman 491-492. Honors Program in German.
Maximum of four hours per semester only by permission of Department Head.

erman 495-496. Readings in German Literature. Three hours
Open only to students capable of a considerable amount of independent reading. *Prerequisite:* Permission of the instructor.

Division V:

Religion and Philosophy

Mr. Matthews Mr. Eickhoff Mr. Jones

Courses in this division are designed to acquaint the student with the Judaeo-hristian tradition and the other great religious traditions of mankind and with the great raditions and disciplines of human thought; to deepen his awareness of himself and f the human community; to cultivate his powers of critical examination and construc-ive reasoning; and to clarify his understanding of the meaning and direction of human xistence.

Studies in religion are especially recommended for students of art, history a literature, and for students preparing for Christian vocations.

Studies in philosophy are especially recommended for pre-professional train for such vocations as the Christian ministry, college teaching, law, journalism, creat writing and art, as well as for students of history, literature and the sciences.

Pre-ministerial Preparation: The American Association of Theological Schools h stated that the college work of students planning to enter the ministry should result at least the following: 1. Ability to speak and write English clearly and correctly, to thi clearly, and to read at least one foreign language; 2. Acquaintance with the world men and ideas, the world of nature, and the world of human affairs; and 3. A sense achievement through the mastery of fields of study and through honors work or oth independent study. The student is expected to become well grounded in Engli philosophy and history, and to gain some background in social studies (especia psychology and sociology), the natural sciences, languages and religion.

1. Religion

Requirements for a Major. The twenty-four hour major, recommended for p ministerial students, must include courses 111, 112 and 490, plus Philosophy 491. T thirty hour major may include Philosophy 371.

Requirements for a Minor. Twenty-one semester hours, at least nine of which mu be in courses numbered above 300.

Religion 101. Conference Studies. No cre
A study of the books required by the Methodist Church for the local preache license. Required of all recipients of ministerial loan-grants who have not y obtained the license to preach.

Religion 111. Old Testament History, Literature, and Interpretation. Three hou
The history of Israel from the earliest times to the Maccabean Age. Historical a literary criticism and religious significance of the emergence of Judaism.

Religion 112. New Testament History, Literature, and Interpretation. Three hou
Attention to author, date, origin, historical and religious significance. Religio 111 recommended.

Religion 121. Primitive Religions. Three hou
Survey of the origins and characteristics of rites, legends and myths of technolo ically undeveloped societies.

Religion 127. Digging in Holy Lands. Three hou
Exciting archaeological discoveries, especially those related to the Bible, suppl mented by wide reading in books, magazines and newspapers, and class repor color slides and movies.

Religion 201-202. Readings in the Greek New Testament. Six hou
An inductive approach to koine Greek, recommended especially for pre-sem nary students. Offered alternate years.

Religion 212. The Old Testament Prophets. Three hou
The nature of prophecy and the prophetic movement in Israel from its beginnin with Moses to its close with the book of Jonah. Religion 111 recommended.

Religion 231. The Life and Teachings of Jesus. Three hou
The world in which Jesus was born and an interpretation of his messianic co sciousness, personality, activities, and teachings. Religion 112 recommended

Religion 241. Life and Teachings of Paul. Three hou
The world of Paul, his life, teachings, and significance, using his letters as th primary source. Religion 112 recommended.

Religion 311. Introduction to Christian Thought. Three hours
Examination of traditional and contemporary understanding of the Christian faith, with emphasis on the nature of God and of man; the significance of Christ and the Church; the relation of religion to morality; the meaning of Creation and Redemption; and the interpretation of Human Destiny. *Prerequisite:* 112.

Religion 321. Primitive Religions. Three hours
Same course as Religion 121, but with more independent research. For upperclassmen.

Religion 327. Digging in Holy Lands. Three hours
Same as Religion 127 but with additional reading and reports.

Religion 353. Church History. Three hours
The origin and development of the Christian Church from its beginnings through the Reformation. (Also History 353).

Religion 355. World Religions. Three hours
A descriptive account of the faith and practices of present-day world religions, with emphasis on Hinduism, Buddhism, Confucianism, Islam.

Religion 471. Psychology of Religion. Three hours
The nature and development of religious consciousness, doubt and fear, sin and forgiveness, conversion, belief and faith, prayer, worship, religious behavior, religion and health. *Prerequisite:* Psychology 111.

Religion 472. Sociology of Religion.
(See Sociology 472G).

Religion 490. Seminar in Religion. Three hours
Intensive study on a special subject, with oral and written reports. Possible topics include The Fourth Gospel, Apocalyptic Literature, Pauline Theology, Wisdom Literature, The Apostolic Period. *Prerequisite:* Advanced standing and permission of the instructor.

Religion 495-496. Readings in Religion. Three hours

Religion 497-498H. Honors. Three hours
(See Philosophy 497-498H).

2. Philosophy

Requirements for a Major. Either a twenty-four or a thirty hour major may be elected. Religion courses 311 and 355 may in some cases be included.

Requirements for a Minor. Twenty-one semester hours.

Philosophy 201. Introduction to Philosophy. Three hours
Both a study of the nature of philosophy, its aims, problems, and methods, and an exercise in philosophizing in which the student clarifies constructively and evaluates critically his own and other understandings of life.

Philosophy 202. Logic. Three hours
Cultivation of rational acuity through an examination of the procedures and limits of rational discourse.

Philosophy 291. Philosophy of Religion. Three hours
An introduction to basic modern concepts, issues, and methods in the philosophical examination of religion.

Philosophy 302. Aesthetics. Three hours
Exploration and cultivation of the sense of beauty through an examination of the nature of artistic production and of the grounds of aesthetic criticism and judgment, including a survey of aesthetic theory. Alternate years.

Philosophy 371. Ethics. Three hour
Cultivation of moral awareness through an examination of human activity, indi vidual and social, with particular reference to the grounds of ethical decision an evaluation. The major theories are examined and related to concrete persona and social problems.

Philosophy 391. History of Western Philosophy I: Ancient and Medieval. Three hour
Philosophical thinking in its cultural context, from its birth through the classica and medieval eras.

Philosophy 392. History of Western Philosophy II: Modern. Three hour
The rise and development of modern culture and its thought-forms, through th nineteenth century.

Philosophy 431. Contemporary Philosophy. Three hour
Twentieth century western thinking and its nineteenth century backgrounds with particular reference to pragmatism, phenomenology, existentialism, th analytical movement and dialectical materialism.

Philosophy 432. Pragmatism and Process Philosophy. Three hour
A critical examination of two major movements in twentieth century philosophy with particular reference to the thought of Peirce, James, Dewey, Mead, Lewis Morgan, Alexander and Whitehead.

Philosophy 451. Political Theory and Philosophy. Three hours
The nature, scope, methods, development and interrelationships of political and philosophical thought. Analysis of traditional and contemporary theories.

Philosophy 490. Seminar in Philosophy. Three hours
Intensive study of a special topic such as Epistemology, Metaphysics, Plato, Kant Permission of instructor required.

Philosophy 491. Philosophy of Religion. Three hours
Same course as Philosophy 291, but with additional independent research.

Philosophy 495-496. Readings in Philosophy. Three hours

Philosophy 497-498H. Honors. Three hours

Division VI:

Natural Sciences

1. Biology *2. Chemistry* *3. General Science*

4. Home Economics *5. Mathematics* *6. Physics*

Requirements for an Area. A teaching area in Science shall consist of a minimum of 48 semester hours distributed according to one or two plans: (1) at least 18 hours in Biology, at least 8 hours each in Physics and Chemistry, and at least 7 hours in Mathematics. (2) At least 12 hours each in Physics and Chemistry and at least 11 hours in Mathematics. Science 111 and 112 will not count towards the 48 hour area.

Agriculture. The first two years of the Biology major program will form the basis for future specialization in the field of Agriculture and its related divisions.

Pharmacy. The first two years of the Biology major program are acceptable at most schools of Pharmacy toward the completion of the professional curriculum. Trigonometry should be substituted for Embryology.

Premedical, predental, preoptometric and preveterinary programs

Most medical, dental, optometry and veterinary schools have the following minimum requirements for admission: two years of chemistry, including one year of organic, one year of physics, one year of biology, one year of English, and one year of mathematics. Calculus is suggested in some cases and at least one medical school requires this as a prerequisite.

It is recommended that a student who plans to enter the medical, dental, optometry, or veterinary profession take general chemistry, college algebra, English 111 and 112, and at least one course in biology the freshman year. Most pre-professional students in the medical sciences major in biology or chemistry and minor in one of these or in physics or mathematics.

Regardless of the program selected the student is expected to confer with the Chairman of the Science Division immediately upon electing medicine, dentistry, optometry or veterinary medicine as a career, or upon deciding to do graduate work in biology.

Combined Degree in Medicine

The Bachelor of Arts degree will be granted to students who have completed three years of work at Union College and one year of work at the University of Louisville Medical School, with the provisions stated in the section on Combined Degrees (p. 18).

A suggested curriculum for the three year programs at Union College is as follows:

Freshman Year	*Sem. Hrs.*
English 111-112	6
Botany or Zoology	4
Humanities	3
Trigonometry	3
College Algebra	4
General Chemistry	8
Social Science	3

Sophomore Year	*Sem. Hrs.*
Humanities	3
Foreign Language	6
Physics	8
Quantitative Analysis (Volumetric)	4
Zoology or Botany	4
Comparative Anatomy	4
Elective	3

Junior Year	*Sem. Hrs.*
Foreign Language	6
Humanities	6
Social Science	6
Organic Chemistry	8
Embryology or Genetics	4
Elective	3

Combined Degree in Medical Technology

The Bachelor of Arts degree will be granted to students who have completed three years of work at Union College including foreign language and one year of work leading to the Certificate in Medical Technology at the University of Louisville School of Medicine. The course in Medical Technology at the University of Louisville is approved by the Council on Medical Education and Hospitals.

The advantages of the Bachelor of Arts degree in addition to the Certificate in Medical Technology are numerous. Many technicians have discovered that additional

work would be of benefit to them in moving ahead in this profession, and the possession of the Bachelor of Arts degree has enabled them to go directly into a graduate school. Some hospitals give preference to applicants with the Bachelor of Arts degree when selecting personnel to work in the field of Medical Technology.

A suggested curriculum for the three year program at Union College is as follows:

Freshman Year	*Sem. Hrs.*
English 111-112	6
Biology	8
General Chemistry	8
Social Science	6
Elective	3

Sophomore Year	*Sem. Hrs.*
Humanities	9
Foreign Language	6
Quantitative Analysis	8
Biology	4
Elective	3

Junior Year	*Sem. Hrs.*
Foreign Language	6
Humanities	3
Qualitative Analysis or Organic Chemistry	4
Bacteriology	4
Electives	3
Social Science Electives	3
College Algebra	4
Elective	3

Combined Degree in Engineering

A cooperative "Three-Two plan" has been worked out with both the University of Kentucky and the School of Engineering of the University of Southern California in which the student attends Union College for three years, pursuing certain pre-engineering courses in addition to a solid program in liberal arts. At the end of the three years, upon the recommendation of Union College, he enters either of the cooperating universities as a junior and in two additional years completes all the requirements for the B.S. degree in engineering. Both A.B. from Union College and B.S. in engineering degrees from the cooperating university are awarded at the end of the fifth year. A suggested curriculum at Union College follows:

Freshman Year	*Sem. Hrs.*
English 111-112	6
Foreign Language	6
Chemistry	8
Mathematics	7
Social Science	6

Sophomore Year	*Sem. Hrs.*
Foreign Language	6
Mathematics	8
Physics	8
Social Science	2
Electives**	8

Continued

Junior Year	*Sem. Hrs.*
Mathematics	10
Physics	8
Electives	14

**Electives which are of value to the engineering student are as follows: Business English, Elementary Accounting, Public Speaking, Principles of Economics.

In his studies at the cooperating university the student should take the additional courses he requires for a total number of semester hours of 24 in physics, 30 in mathematics, or 30 in chemistry to achieve a major in either of these disciplines. When a student elects the "Three-Two plan" he should be assisted constantly by his adviser.

In addition, Union College is prepared to offer a two year program after which the student may transfer to the State University for the completion of the engineering curriculum. The student should plan to transfer to the University in the summer following the completion of the second year at Union College. By following this procedure the student should complete the curriculum for an engineering degree with a total program at the two schools of nine semesters and one summer term after high school. A suggested program for the two year curriculum is as follows:

Freshman Year	*Sem. Hrs.*
English 111-112	6
Social Science	3
College Algebra	4
Trigonometry	3
Solid Geometry*	2
General Chemistry	8
Electives	4

Sophomore Year	*Sem. Hrs.*
Social Science	3
Physics	8
Analytics and Calculus	8
Humanities	6
Electives	6

*If the student comes to Union College with credit in Solid Geometry from high school, this course is not required.

1. Biology

Mr. Waer *Mr. Gilbert* *Mr. Cohenour* *Mr. Kringen*

Mr. Baker *Mr. Erickson*

Requirements For a Major. Thirty semester hours which should include Biology 231, 232, 233, 351, and 471G, or 413 and 431. Majors in Biology take Chemistry 111, 112, one other course in Chemistry, Mathematics 111-112, and Physics 111-112.

Requirements For a Minor. Twenty-one semester hours which should include Biology 231 and Biology 232.

Biology 231. General Zoology. (3.4). Five hours

A study of the different phyla of the invertebrate group with special attention given to characteristic structures, life histories, and economic importance. Typical representatives from each phylum are considered in the laboratory.

Biology 232. General Botany. (2.4). Four hours
A study of the structure, function, and life relationships of the flowering plants. Morphology is emphasized, and aspects of physiology such as photosynthesis, respiration, plant hormones, and vitamins are discussed. Examples are given to show how these processes and substances affect growth and development.

Biology 233. Cryptogamic Botany. (2.4). Four hours
A study of the algae, fungi, mosses, and ferns with special attention given to characteristics, life histories, phylogenetic relationships, and economic importance. Typical representatives from phylum are considered in the laboratory.

Biology 321. Field Biology. Six hours
Designed to acquaint the student with animals in their natural habitats and with the local species of plants found in the Appalachian region. The ecology of the living flora and fauna as a unit is studied. This course is given at the MACCI biological field station, Norris Lake, Tenn. *Prerequisite:* One course in biology. Summer.

Biology 351. Comparative Vertebrate Anatomy. (2.4). Four hours
A detailed study of the structure of higher vertebrates with special reference to the form and development of systems and organs. *Prerequisite:* Biology 231 or equivalent. Second semester.

Biology 382. Entomology. (3.2). Four hours
The structure, habits, and classifications of insects and arthropods.

Biology 413. Human Physiology. (3.2). Four hours
To familiarize the student with the structure and function of the various organ systems of the human body. For comparison, consideration is given to certain animals at various points in the course. Anatomical studies and physiological experiments in the laboratory. *Prerequisite:* Biology 231 and 351. Second semester.

Biology 421. Animal Parasitology. Three hours
The identification and life histories of representative parasitic protozoa and helminths emphasizing the hostparasite relationships on human parasites.

Biology 431. Developmental Biology. (2.4). Four hours
A review of the process of germ cell development, fertilization and cleavage in both invertebrates and vertebrates, followed by a detailed comparative study of the development of the frog, chick, pig, and man. Living material of the frog and chick, and whole mounts and serial sections of frog, chick, and pig are used for study of germ layer formation, histogenesis, and organogenesis. Required for pre-medical students. *Prerequisite:* Biology 231 and 351.

Biology 461. Genetics. (3.2). Four hours
The fundamental principles of heredity applied to plants, animals, and man. Practical application of these principles to the improvement of cultivated plants and domestic animals will be studied; also their role in the course of organic evolution. *Prerequisite:* Science 111 or equivalent.

Biology 471G. Microbiology. (2.4). Four hours
The morphology, physiology, and taxonomy of bacterial and other microorganisms, including brief treatment of algae, protozoa, molds, rickettsiae, viruses, and yeasts. Their roles in industry; the soil, sewage, water, and air; foods; and disease are considered. Cultivation and observation techniques in laboratory.

Biology 481G. Epidemiology: General Principles. (3.2). Four hours
The approach in epidemiology is to acquaint the student with the general principles of epidemiology dealing with the agent, host and environmental factors, their interrelationships, and their influence on epidemic disease in the urban society.

Biology 495-496. Special Problems in Biology. Four hours
An introduction to the methods of scientific research for the advanced student who has demonstrated ability to do independent work in biology. It will consist of a particular problem decided upon after consultation with the instructor. A typewritten and bound report-thesis may be required. An examination may or may not be given, depending on the nature of the problem. *Prerequisite:* Permission of the head of the department.

Biology 592. Environmental Workshop. Three hours
(See Environmental Studies 592).

Biology 595-596. Research-Investigations in Biology. Four hours
An independent research problem in which the student must demonstrate his ability to employ the scientific method in carrying out an original scientific investigation. A typewritten and bound manuscript will be required. An examination may or may not be given, depending on the nature of the problem selected. *Prerequisite:* Permission of the instructor and approval of the head of the department.

2. Chemistry

Mr. Jankovics Mr. Huffman

The objective of the Department of Chemistry is the development in students of (1) understanding of the fundamental principles of chemical science; (2) the ability to apply these principles in both technical and everyday practical ways; (3) the scientific attitude of mind and scientific method of problem-solving; (4) though less tangible, the broader and deeper appreciations and interests related to the role of chemistry in modern life; and (5) the necessary foundation for vocations based directly or indirectly on chemical science.

Requirements for a Major. Thirty semester hours. A student must take the following courses: Chemistry 111-112, 211-212, 311-312, 411-412. The major is required to take Physics 211-212 and Mathematics 241-242.

For those desiring to concentrate more heavily in the field of chemistry in order to meet requirements of graduate schools and standards set by the American Chemical Society, it is suggested the major be expanded to include some of the following: Chemistry 402, 431, 491, 495-496. Those embarking on this course should obtain approval of the Head of the Department at the beginning of the second year.

Requirements for a Minor. Twenty-one semester hours which should include 111-112.

Chemistry 111-112. General Chemistry. (3.3). Four hours
Designed to develop the cultural values of the stated objectives above and to serve as a foundation for later Chemistry courses. Laboratory work designed to support and elaborate classroom discussions.

Chemistry 211. Qualitative and Instrumental Analysis. (2.6). Four hours
A study of homogeneous and heterogeneous equilibria as applied to analytical chemistry. Some related aspects of modern instrumental methods are also described. The laboratory work consists of semi-micro qualitative analysis and some instrumental measurements. *Prerequisite:* Chemistry 112.

Chemistry 212. Quantitative Analysis. (2.6). Four hours
A study of important volumetric and gravimetric analyses presented from a modern theoretical standpoint. Also an introduction to the study of advanced methods of analysis including some newer instrumentation techniques. *Prerequisite:* Chemistry 112.

Chemistry 311-312. Organic Chemistry. (3.3). Four hours
A thorough course in the chemistry of organic compounds. Unitized laboratory work designed to illustrate the basic principles of organic chemistry. *Prerequisite:* Chemistry 112.

Chemistry 402. Qualitative Organic Chemistry. (2.6). Four hours
Course presents methods of identification of individual organic compounds and separation and identification of mixtures of complex organic compounds. *Prerequisite:* Chemistry 311.

Chemistry 411-412. Physical Chemistry. (3.3). Four hours
A study of theoretical chemistry as applied to the structure of atoms and molecules; relationships between structure and chemical and physical properties; thermodynamics; kinetics; radiochemistry. *Prerequisite:* Mathematics 241, Physics 211-212.

Chemistry 431. Biochemistry. (3.3) Four hours
A study of carbohydrates, proteins, lipids, vitamins, hormones and enzymes as related to plant and animal life. Included is a discussion of RNA, DNA, genetic code system, intermediary metabolism and integrated metabolism. *Prerequisite:* Chemistry 211-212, 311.

Chemistry 491. Chemical and Scientific Literature. (1.0). One hour
An introduction to the literature of chemistry and other sciences is gained by library research, abstract writing, and specific library problems encountered in chemistry, biology, mathematics, and physics. Should be followed by courses in sciences of the 495 series. Open to seniors and graduate students and to juniors approved by the staff.

Chemistry 495-496. Special Problems in Chemistry. Four hours
This is an introduction to the methods of scientific research. The course is designed for the advanced student who has demonstrated ability to do independent work in Chemistry. It will consist of a particular problem decided upon after consultation with the instructor. Upon conclusion of the work a typewritten and bound report-thesis may be required. An examination may or may not be given, depending on the nature of the problem. *Prerequisite:* Permission of the head of the department.

3. Environmental Studies Program

Mr. Kringen Mr. Carter Mr. Baker

The following guidelines apply to those taking a major with an area of emphasis in environmental studies.

1. Completion of a major of 24-30 semester hours as determined by the faculty of the individual discipline.
2. Completion of 48 semester hours of an area with environmental emphasis.
   a. The following courses must be included within the 48 hours:
      Environmental Studies 100
      Environmental Studies 400
      Biology 241, Ecology
   b. Courses taken in the area can be applied to both the area and general college requirements. These courses are to be selected from a list provided by the Director of Environmental Studies. Except for the major, no more than twelve hours in any one discipline may be applied to the area; however, additional courses in a discipline may be taken in the elective hours remaining.

c. Courses in the major field may be applied to the area or to the major but not to both.
d. The division of courses within the area will be as follows:

Hours Required Outside of the Major

	Chemistry, Biology and Physics Majors	*All Other Majors*
Physical Sciences Biology, Chemistry Physics	16	24
Social Science and Humanities	24	16
Environmental Studies	8	8
	48	48

3. The student must meet the graduation requirements listed in the Union College Bulletin.
4. Exceptions to the above guidelines can be permitted upon recommendation of a faculty member from the student's major discipline, the director of the environmental studies program and the Academic Dean.

Environmental Studies 100/300. Man and His Environment. Four hours
A multidisciplinary discussion of the effects of man's activities in his environment. Specific problems are as will be identified and their nature explored; field trips will be conducted; independent study projects will be required; additional assignments will be given to students registering for Environmental Studies 300.

Environmental Studies 400. Environmental Research. Four hours
Seminars and group research on selected environmental problems using an interdisciplinary approach. Each student is expected to have a background in a discipline which will be the basis of his approach to specific problems.

Environmental Studies 592. Environmental Workshop. Three hours
For in-service teachers, this course includes a survey of environmental problems, current trends and techniques in environmental education, field trips and related seminars. To be offered at the Environmental Education Center, Cumberland Gap National Historical Park. Summers only.

4. General Science

Mr. Waer Mr. Carter

Neither a major nor a minor is offered.

Science 111. Biological Science. (3.2). Four hours
An introductory course that deals with fundamental facts and processes of plant and animal life. Careful observation and critical comparison and correlation of such processes as metabolism, growth, reproduction, and heredity are emphasized. The laboratory exercises, illustrative of biological principles, stress thoroughness in dissection and interpretation. This course does not apply as credit on a major in Biology.

Science 112. Physical Science. (3.2). Four hours
An introductory course that deals with the physical sciences. Including materials from astronomy, chemistry, geology, mathematics, and physics, a thorough integration of these subjects is attempted in order to interpret man's relationship to the phenomena in the various physical sciences.

Science 300. Man and His Environment. Four hours
(See Environmental Studies 100/300).

Science 594. Aerospace Workshop. Three hours
A workshop for elementary school teachers offered during the summer session. It is conducted by the Graduate School in cooperation with the National Aeronautics and Space Administration. Lectures and demonstrations will be given by NASA Space Scientists and Astronauts. Topics covered in science that can be applied to the new problems of space include: astronomy, physics, chemistry, earth science, biology, applications of information, audio-visual aids, teaching methods and demonstration. Each student is required to develop a teaching unit on space science suitable for use in the grade or subject he teaches.

5. Home Economics

Miss Lay

The curriculum is in general home economics with no specialization within the field. The first two years will be accepted by certain institutions as two years toward the Smith-Hughes Program but the four-year program does not provide certification for teaching in a Vocational Home Economics Department. Individual courses may be selected by a student majoring in other departments.

Requirements for a Major. Thirty semester hours and Chemistry 111 and 112.

Requirements for a Minor. Twenty-one semester hours.

SUGGESTED FOUR YEAR HOME ECONOMICS PROGRAM

Freshman Year	*Sem. Hrs.*
English 111-112	6
Social Science	6
Science 111	4
Home Economics 171-172	7
Psychology 111	3
Humanities	3

Sophomore Year	*Sem. Hrs.*
Chemistry 111-112	8
Humanities	6
Social Science	3
Intro. to Education	3
Home Economics 211-212	6
Home Economics 271	3
Home Economics 201	3

Junior Year	*Sem. Hrs.*
Home Economics 380	3
Home Economics 391	3
Home Economics 451	3
Home Economics 341	3
Humanities	9
Psychology 351	3
Health 280	3
Elective (for minor)	6

Senior Year	*Sem. Hrs.*
Home Economics 401	3
Methods and Materials in Secondary School	4
Student Teaching	10
Home Economics 431	2
Elective (for minor)	15

Economics 171. Elementary Foods. Three hours
Elementary principles of food preparation; analysis of basic recipes; developing techniques in the kitchen. First semester every year.

Economics 172. Meal Planning and Serving. Three hours
Selecting, purchasing, preparing, and serving meals for various occasions. *Prerequisite:* Home Economics 171 or equivalent. Second semester every year.

Economics 201, 202. Fundamentals of Design. Three hours
(See Art 201, 202).

Economics 210. Child Development. Three hours
(See Psychology 210).

Economics 211. Elementary Clothing. Three hours
Selection of designs and fabrics; use of commercial patterns; techniques in fundamental construction process in making simple garments; use of machine and attachments. First semester every year.

Economics 212. Advanced Clothing. Three Hours
Design in clothing and tailoring; the principles and practices involved in the tailoring of women's and men's coats and suits. Custom tailoring techniques used. *Prerequisite:* Home Economics 211 or equivalent. Second semester every year.

Economics 271. Marriage and the Family. Three hours
(See Sociology 271).

Economics 280. Personal and Community Health. Three hours
(See Health 280).

Economics 341. Home Management and Family tionships Three hours
Philosophy and principles of home management. Study of the mechanics of time, energy, and money management; personal development, and social and family relationships. First semester alternate years.

Economics 351. Human Growth and Development. Three hours
(See Psychology 351).

Economics 355. 'Children's Literature. Three hours
(See English 355).

Economics 380. Household Equipment. Three hours
A study of the selection, arrangement, operation, care, and demonstration of household equipment. Second semester, alternate years.

Economics 382. Consumer Economics. Three Hours
(See Economics 382).

Economics 391. Principles of Nutrition. Three hours
Diet problems; study of nutrients and their relationships to health; special problem in the field of nutrition required by each student. Second semester every year.

Economics 401. Textiles. Three hours
Textile fibers, yarns, and fabrics; their source, production, manufacture, properties and identification. The selection, use, and care of modern textiles. Second semester, alternate years.

Economics 431-432. Home Management and Family tionships Laboratory. Two hours
Each student is limited to four hours credit. A residence period in the Home Management House is required of seniors majoring in Home Economics. Experience in the application of principles presented in other courses. Admission by permission of the instructor.

Home Economics 451. House Planning and Furnishing. Three hours
Architecture; house plans; building materials; landscaping; planning the interior of the house; observation trips. First semester alternate years.

Home Economics 495-496. Problems in Home Economics. Three hours
The student selects a problem and works under the supervision of the instructor. Designed for the advanced student.

6. Mathematics

Mr. Carter Mr. Simpson Mr. Santaram

The objectives of the department are the development of formal manipulative skills, the ability to apply techniques, and the education of the student in the nature of mathematics as a logical structure.

Requirements for a Major. Thirty semester hours consisting of mathematics courses numbered 241 and above. Physics 211 and 212.

Requirements for a Minor. Twenty-one semester hours consisting of mathematics courses numbered 203 and above.

Mathematics 111. College Algebra. Four hours
Review of fundamentals of algebra, linear functions, exponents and radicals, quadratic equations, ratio, progressions, probability, binomial theorem, mathematical induction, inequalities, determinants, theory of equations. Remedial laboratory sections without credit are required of those whose work is unsatisfactory. *Prerequisite:* Satisfactory score on a pre-test.

Mathematics 112. Plane Trigonometry. Three hours
The trigonometric functions, use of tables, solution of right and oblique triangles by use of logarithms, radian measure, fundamental identities, graphical representation of trigonometric functions, inverse functions, solutions of equations. *Prerequisites:* Mathematics 111 and plane geometry.

Mathematics 203-204. Structure of the Number Systems. Three hours
Historical development of the numeration systems, the structure of the counting numbers, the integers, rationals, irrationals, and reals in set-theoretic language and in a manner showing the inter-relationship between theory and computational techniques. Some topics in informal geometry are included.

Mathematics 241. Introduction to Calculus and Analytic Geometry. Four hours
Slopes and rates of change, the inverse of differentiation, differentiation of algebraic and trigonometric functions, differentials and anti-derivatives. *Prerequisite:* Mathematics 111 and 112.

Mathematics 242. Intermediate Calculus and Analytic Geometry. Four hours
Additional topics in analytic geometry, polar coordinates, logarithmic, exponential and hyperbolic functions, the definite integral and techniques of integration, and applications, vectors. *Prerequisites:* Mathematics 102 (or high school solid geometry) and Mathematics 241.

Mathematics 331. Introduction to Linear Algebra. Three hours
Elementary set theory, translations, composition laws and groups, vector spaces with applications to geometry. *Prerequisites:* Mathematics 102, 111, 112, and the permission of the instructor.

Mathematics 332. Linear Algebra. Three hours
Linear systems, dimensions and bases of a vector space, linear mappings, Euclidean and unitary vector spaces, determinants, reduction of quadratic polynomials. *Prerequisite:* Mathematics 331.

Mathematics 341. Advanced Calculus and Analytic Geometry. Four hours
Solid analytic geometry, infinite series and Taylor's formula, partial differentiation, multiple integrals, differential equations. *Prerequisite:* Mathematics 242.

Mathematics 382. Probability and Mathematical Statistics. Three hours
Theoretical probability using point set approach; probability as a frequency ratio; probability for finite sample spaces, conditional probability; joint and continuous distributions; binomial distribution; Baye's theorem; statistical applications of probability; theory of sampling and variance. *Prerequisite:* Mathematics 242, which may be taken concurrently, and permission of the instructor. (Also Physics 382).

Mathematics 401. College Geometry. Three hours
Historical introduction to Euclid's elements, logic, points, lines, planes, real numbers and the ruler axiom, separation in the plane and in space, angles and the protractor axiom, congruence, circles, and spheres. *Prerequisite:* Mathematics 241 and permission of the instructor.

Mathematics 402. Functions of a Complex Variable. Three hours
Complex numbers, analytic functions, elementary functions of a complex variable, Cauchy's formula, Liouville's theorem, Laurent's series, residues, contour integration, conformal mapping, physical applications.

Mathematics 403. Introduction to Analysis I. Three hours
Sets and functions, topological ideas, LUB property, real sequences, continuity, mean value theorems, integration, definite integrals, Taylor's theorems, improper integrals, convergence of infinite series, power series, improper integrals with parameter.

Mathematics 404. Introduction to Analysis II. Three hours
Differentiation, inverse functions, implicit function theorems, applications to Geometry and analysis, differential geometry and vector calculus, integration over curves and surfaces, differential forms, theorems of Green, Gauss, and Stokes, field theory, calculus of variations.

Mathematics 481. Differential Equations. Three hours
Particular solutions, differential equations of first order and degree, applications. *Prerequisite:* Mathematics 341. May be offered in either semester.

Mathematics 495. Tutorial Work in Mathematics. Three hours
Independent work on topics selected to meet the student's needs. For Mathematics majors only. *Prerequisite:* Senior standing and permission of the instructor. May be offered in either semester.

Mathematics 531. Newer Concepts of Mathematics for Elementary Teachers. Three hours
Same course as Math 203, but with additional work required for graduate students.

Mathematics 532. Newer Concepts of Mathematics for Elementary Teachers. Three hours
Same course as Math 204, but with additional work required for graduate students.

7. Physics

Mr. Riesz Mr. Santaram

The general objectives of the physics curriculum are: 1. to develop an understanding of physical phenomena and the methods of physical experimentation; 2. to encourage capable students to consider careers in science or engineering.

Requirements for a Major. Thirty semester hours consisting of Physics numbered 211 or above. Chemistry 111-112.

Requirements for a Minor. Twenty-one semester hours consisting of Physics numbered 211 or above. Chemistry 111-112.

Physics 111-112. General Physics. (3.2). Four hours
Statics and dynamics; mechanics of motion; elastic properties of solids, liquids, and gases; heat phenomena; electricity and magnetism; wave motion and vibratory phenomena; light; selected topics in modern physics. *Prerequisites:* Mathematics 111 and 112, which may be taken concurrently. Does not count toward major or minor.

Physics 211. Mechanics, Heat, Wave Motion, and Sound. (3.2). Four hours
Mechanics of solids, liquids, and gases; laws of thermodynamics; kinetic-molecular theory; vibrating bodies; standing waves; Doppler effect. *Prerequisite:* Mathematics 241, which may be taken concurrently.

Physics 212. Electricity and Magnetism, Light and Nucleonics. (3.2). Four hours
Laws of Coulomb, Faraday, Ampere, Ohm, Joule, and Lenz, electromagnetic theory; lenses, prisms, and mirrors; polarization; photo-electric and Compton effects; nuclear energy; waves and corpuscles; relativistic effects. *Prerequisite:* Physics 211. Satisfies all specific objectives listed.

Physics 311. Heat and Thermodynamics. (3.2). Four hours
Thermometry and Calorimetry; ideal gas laws; changes of state; equations of state; black body radiation; reversible and irreversible processes; laws of thermodynamics; Fourier Series and heat conduction; enthalpy and entropy; heat engines; adiabatic and isothermal processes; kinetic theory of gases and liquids. *Prerequisites:* Physics 212 and Math. 241, which may be taken concurrently.

Physics 312. Electricity and Magnetism. (3.2). Four hours
Electric charges, forces, fields and potential with associated magnetic forces and fields; dielectric theory; capacitance, inductance, resonance, oscillation; series, parallel DC and AC circuits; measuring instruments; thermo-devices electromagnets; motor and generator principles; transformers; Maxwell's equations and electromagnetic waves. *Prerequisites:* Physics 212 and Math. 241.

Physics 382. Probability and Mathematical Statistics.
(See Mathematics 382).

Physics 401. Physical Optics. (3.2). Four hours
Electromagnetic spectrum; wave propagation and superposition; standing waves; interference; diffraction; absorption; dispersion; polarization; double refraction; theory of selected optical instruments. *Prerequisites:* Physics 212 and Math. 241.

Physics 410, 411. Theoretical Mechanics. Three hours
Statics, Kinematics and Dynamics of particles and rigid bodies; centroid, moment and product of inertia; laws of motion, force, mass, momentum and impulse; work, power, energy and potential; motion of a particle in uniform and simple radial fields; holonomous mechanical systems and equations of Lagrange and Hamilton. Three hours credit per semester. *Prerequisties:* Physics 212 and Math 241.

Physics 412. Atomic and Nuclear Physics. Three hours
Optical spectra; distribution; electromagnetic radiation; x-ray spectra; natural and induced radioactivity; isotopes; electron optics, photoelectric phenomena and wave and particle theories; oscilloscope, spectroscope, spectrometer, spectrograph, radiation counters and particle accelerators; fission, fusion and thermonuclear energy. *Prerequisites:* Physics 212 and Math. 241.

Physics 495-496. Three hours
Independent work on topics selected to meet the student's needs. *Prerequisite:* Permission of the instructor. For Physics majors only.

Division VII:

Social Science

1. Business 2. Economics 3. Geography 4. History

5. Political Science 6. Psychology 7. Sociology 8. Social Work

1. Business

Miss Milliken Mr. Hacker Mrs. Allen Mr. Newport Mr. Graham

Objectives:

1. To develop skills and knowledge useful for a career in business.
2. To train business teachers and encourage graduate study.
3. To develop an understanding of the place of business in everyday living.

Requirements for a Major in Accounting. Twenty-four semester hours in Accounting. (Not for teachers).

Requirements for a Major in Business Administration. Thirty-six semester hours including eight hours in Accounting, Business 111 (or equivalent), 112, 352, 411 or 412, and Economics 431 or 342. (Not for teachers).

Requirements for a Major in Business Education. Thirty semester hours including Business 111 (or equivalent), 112, 191, 192, 261, 301 or 302, and Economics 341 or 342. A thirty-six hour major in Business-Secretarial Practice shall include twelve hours in Secretarial Practice courses. A thirty-six hour major in Business-Accounting shall include twelve hours in Accounting. In addition the student must meet the requirements for a Provisional High School Certificate.

Requirements for a Minor in Accounting. Twenty-one semester hours in Accounting.

Requirements for a Minor in Business. Twenty-one semester hours including Business 111, or equivalent, 112, and Business 191.

Requirements for a Minor in Secretarial Practice. Twenty-one semester hours including Business 111, 112 or equivalent. Business 121, 122 and 331.

Requirements for an Area in Business. Forty-eight semester hours, including twenty-four hours in Accounting, six hours in Business Law, and six hours in Economics, including Economics 341 or 342.

Requirements for an Associate of Science Degree. An Associate of Science Degree in Office Practice or in Accounting will be granted to any student who completes two years of college and who meets the following requirements.

1. Sixty-four semester hours, including forty-eight hours in Business subjects.
2. An average scholastic standing of 2.00.
3. No grade below "C" in Business.
4. Completion of one of the following programs.

Office Practice

Course	*Hours*
Freshman English	6
Typewriting	6
Shorthand	6
Introduction to Business	3
Business Mathematics	3
Accounting	3
Office Machines	3
Business Correspondence	6
Office Practice	3
Office Management	3
Consumer Economics	3
Business Internship	3
Business Electives	6
General Electives	10
Total	64

Accounting

Course	*Hours*
Freshman English	6
Typewriting	6
Introduction to Business	3
Accounting	15
Business Mathematics	3
Office Machines	3
Data Processing	3
Business Law	3
Business Correspondence	3
Principles of Economics	3
Business Internship	3
Business Electives	3
General Electives	10
Total	64

Adjustments in these programs may be made with the consent of the Head of the Department of Business.

Business 111-112. Typewriting. Three hours
A student with one or more high school units in typewriting cannot take Business 111 for credit.

Business 121. Elementary Shorthand Three hours
Principles of Gregg Shorthand, Diamond Jubilee Series.

Business 122. Intermediate Shorthand Three hours
Continuation of Business 121.

Business 151. Introduction to Business. Three hours
Forms of business ownership, marketing, personnel management, finance, and government regulations.

Business 171. Business Mathematics. Three hours
Fundamental processes involving percentage, interest, discount, payroll, taxes, and financial statements. Second semester.

Business 191-192. Principles of Accounting. Three hours
Procedures in journalizing, posting, financial statements, adjusting and closing entries, controlling accounts, and the voucher system.

Business 221. Advanced Shorthand. Three hours
Emphasis placed on speed in taking dictation and in transcribing notes. *Prerequisites:* Business 122 and 112 or equivalent. Offered on sufficient demand.

Business 261. Office Machines. Three hours
Skill building in the use of common office machines, including the adding machine, calculator, comptometer, posting, duplicator, and keypunch. *Prerequisite:* Business 111 or equivalent.

Business 272. Principles of Marketing.
(See Economics 272).

Business 301-302. Business Correspondence. Three hours
Essentials of mailable business correspondence.

Business 311. Salesmanship. Three hours
The salesman's training and his responsibility to the consumer. Second semester.

Business 321. Payroll Tax Accounting. Two hours
The Social Security Act and other laws relating to the payment of wages and salaries, the preparation of state and Federal tax returns, and the use of data processing in payroll accounting. *Prerequisite:* Business 192.

Business 331. Office Practice. Three hours
The development of office proficiency. *Prerequisites:* Business 112 or equivalent. Offered on sufficient demand.

Business 351. Office Management. Three hours
Office building, equipment, personnel supervision, control of office activities.

Business 352. Principles of Management. Three hours
The development of organization plans and policies, development of industrial relations, management operation with emphasis on skills and techniques of leadership.

Business 361. Insurance. Three hours
Insurance contracts and the fields of insurance including fire, marine, casualty, social, disability, life, and property.

Business 362. Principles of Finance.
(See Economics 262).

Business 381-382. Data Processing. Three hours
Principles of operation, and general applications of punched card equipment including the IBM 26 printing keypunch, 082 card sorter, 402 accounting machine, 514 reproducing punch, 085 card collator, and the 548 interpreter.

Business 383. Introduction to Computer. Three hours
Study of the use and function of 1130 computer and auxiliary equipment. *Prerequisite:* Business 381.

Business 391. Intermediate Accounting. Four hours
Accounting statements, working capital items, investments, corporate capital, statement analysis. *Prerequisite:* Business 192.

Business 392. Advanced Accounting. Four hours
Accounting for partnerships, joint ventures, installment sales, consignments, home office and branch units, consolidated income statements, balance sheets, and surplus statements. *Prerequisite:* Business 391.

Business 401. Statistics.
(See Economics 401).

Business 402. Investments.-
(See Economics 402).

Business 411-412. Business Law Three hours
Laws dealing with contracts, agency, employment, bailment, transportation, real and personal property, leases, and bankruptcy.

Business 421. Cost Accounting Three hours
Methods of assembling cost data for materials, labor, and overhead consumed in a manufacturing enterprise. *Prerequisite:* Business 391. Second semester.

Business 491. Auditing. Three hours
Verification, analysis and interpretation of accounting records. A complete audit practice set is included. *Prerequisite:* Business 391.

Business 492. Income Tax Accounting. Two hours
Practice in preparing returns for individuals, partnerships, and corporations under the Federal Income Tax law. *Prerequisite:* Business 192.

Business 495-496. Special Problems in Business Three hours
Independent projects for advanced students. *Prerequisite:* Permission of the head of the department.

The following courses may be counted as Business:

Economics 341-342. Principles of Economics.

Economics 372. Labor Economics.

Economics 382. Consumer Economics.

Economics 392. Money and Banking.

2. Economics

Mr. Newport Mr. Graham

Requirements for a Minor in Economics: Twenty-one semester hours, including Economics 341 or 342. No more than six hours of inter-departmental courses may be counted on the minor.

Economics 241. American Economic Development.
(See History 241).

Economics 272. Principles of Marketing. Three hours
An analysis of marketing functions and methods relating to producer, middleman, and consumer.

Economics 281. Current Socio-Economic Problems.
(See Sociology 281).

Economics 322. Economic Geography.
(See Geography 322).

Economics 341-342. Principles of Economics. Three hours
Elementary economic theory of prices, national income, production, and employment.

Economics 362. Principles of Finance. Three hours
Basic principles of finance including monetary and credit systems, the demand for funds in the capital market, factors affecting the supply of funds, and monetary and credit policies.

Economics 372. Labor Economics. Three hours
The labor market, wage and labor problems and theories, development of labor unions and wage and labor policies.

Economics 382. Consumer Economics Three hours
The role of the consumer in handling his money. (Also Home Economics 382).

Economics 392. Money and Banking. Three hours
National Banking system, nature and functions of money, the importance of credit, relation of money and credit to prices, bank deposits, and loans. *Prerequisite:* Economics 341 or 342. First semester.

Economics 401. Statistics. Three hours
A study of the mathematics involved in statistical analysis and the effective use of statistical data in decision making.

Economics 402. Investments. Three hours
Public and corporate securities, security markets, investment policies and tax problems. *Prerequisites:* Economics 341 or 342.

3. Geography

Miss Millen

eography 121. Principles of Geography Three hours
Landmarks of the world as related to climatic patterns. This is the basic course in college geography.

eography 322. Economic Geography. Three hours
Regional world geography; a survey of industries; natural and cultural environments; analysis of economic factors in current international affairs. (Also Economics 322).

eography 331. Geography of the United States and Canada. Three hours
Geographic regions of United States and Canada; human activities within these regions; interpretation of these activities in relationship to natural environment and cultural background of the peoples.

eography 332. Geography of Africa. Three hours
Physical structure and natural conditions, with their actualities and potentialities of use by man; acute racial antagonisms; problems of progress and lack of progress.

eography 341. Geography of Europe. Three hours
Study of today's Europe and Britain and their economic and political developments; natural and human resources of these areas; adjustments made by man to conditions; mutual importance of Europe and United States.

eography 495. Readings in Geography. One to three hours

History and Political Science

Mr. Bradley Mr. Lindley Mr. McCullen

Mr. Oxendine Mr. Black

Objectives: to inform the student of the principal historical developments of the ast for the purpose of assisting him to comprehend the conditions of the present orld; and to enable him to promote his personal welfare and that of society.

Pre-Law

Most law schools require applicants to take the national Law School Admission est either as a primary requirement or for those with minimum academic records. The ssociation of American Law Schools recommends a program of broad liberal educa-ion including work in the following fields: English, history and political science, math-matics, economics, accounting, foreign language, and philosophy. At Union the udent should follow the general curriculum for his first two years. The last two ears may be planned with the aid of his advisor.

4. History

Requirements for a Major in History. Thirty semester hours, of which not mo than eighteen hours shall be in United States History. History 490 is required for a majors.

Requirements of a Minor in History. Twenty-one semester hours, of which fro six to twelve hours must be in United States History.

History 111. American History. Three hou
American history from colonial beginnings to 1848.

History 112. American History. Three hou
American history from reconstruction to 1928.

History 113. American History. Three hou
History of United States since 1928.

History 221. Kentucky History. Three hou
Kentucky from colonial times to the present.

History 241. Early American Economic History. Three hour
Economic history of the nation to 1860. (Also Economics 241).

History 271. (Formerly 371). U.S. History — 1848-1877. Three hour
A study of the Middle Period of American History covering the antebellum years the great Civil War and the Post-war era.

History 273. Black History in United States. Three hour
A survey of black history from the introduction of slavery in the Colonial Perio to the present time.

History 283. United States Social History Since 1865. Three hour
The New South; the last frontier; the urban impact on rural life, the church an education; the labor movement and the new immigration; the lost generation the impact of the depression and World War II on social institutions.

History 321. Latin America. Three hour
The colonial period.

History 322. Latin America. Three hour
Mexico and the Caribbean nations.

History 331. Modern European History. Three hours
The history of Europe from the Renaissance through the era of Metternich.

History 332. Modern European History. Three hours
The history of Europe from the era of Metternich to 1939.

History 341. Modern Britain to 1900. Three hours
History of Britain from 16th Century to 1900.

History 353. Church History.
(See Religion 353).

History 361. The American Frontier. Three hours
Western problems of independence; Appalachia to the Mississippi; the Great Plains, Texas and Oregon; the Indian barrier; the fur trade, gold, and longhorns, the role of the Frontier in American democracy.

History 391. United States Constitutional History to 1865. Three hours
Our British heritage; contributions of the Colonial, Revolutionary, and Confederation eras; the constitution and growth of judicial review; factors which have contributed to the evolution of our federal system of government.

story 392. United States Constitutional History Since 1865. Three hours
The impact of the post-bellum, Populist, Progressive, New Deal, and "Warren Court" eras on constitutional development; the effect on active dissident intervention on behalf of civil liberties.

story 411. Medieval Civilization Three hours
A history of Europe from the collapse of Rome to the Renaissance.

story 433. Imperial Russia. Three hours
Russia's history from the 17th century to 1917.

story 434. The Soviet Union. Three hours
The rise of the Soviet state and its history to the present.

story 442G. Britain in the Twentieth Century. Three hours
The history of Britain since 1900.

story 445G. Contemporary International Problems.
(See Political Science 445G).

story 450G. Recent European History. Three hours
History of Europe since 1939.

story 451G. The Ancient Near East. Three hours
The civilizations of the Egyptians, Babylonians, Hittites, Assyrians, and Hebrews; the sea kingdom of Crete; the Greek city states versus Persia; classical Greece to 330 B.C.

story 452G. The Roman World. Three hours
The rise and decline of the republic; conquests; the Principate; Augustan Society; imperial despotism and military anarchy; rise of Christianity and the decay of Rome.

istory 461G-462G. American Diplomacy.
(See Political Science 461G-462G).

istory 490G. Seminary in Research. Three hours
Gathering and criticism of data; bibliographies and aids; problems in historiography; composition analysis, and the final monograph. Required of all History Majors.

istory 495-496. Specialized Reading in History. Three hours
Designed for seniors majoring or minoring in history. Intensive reading in the field of the individual's special interest.

istory 521. American Colonial Culture. Three hours
The background; travel, everyday life, and intellectual pursuits; economic enterprises: — capitalism, commerce, household industries; the laborer and colonial craftsman; and frontier agriculture.

istory 531. American Revolutionary Era. Three hours
The background of the Revolution; Continental Congress and the Confederation at work; internal problems and strife; military and naval events; foreign relations; the road to final independence and peace.

istory 541. The Jacksonian Era. Three hours
An intensive study of the political, diplomatic, economic, and social history of the United States from 1828 to 1848; the philosophy of Jacksonian democracy.

istory 551. Seminar in the Civil War and Reconstruction Era. Three hours
Independent study and reports on selected topics supplemented with class lectures and discussion.

istory 582. America in the Age of Industrialism. Three hours
An inquiry into American economic development, social conflict, and intellectual and constitutional history, from 1867 to 1914.

History 583. Recent American History. Three hou
Selected topics on the nation's history since 1900.

History 595. Advanced Specialized Readings in History. One to three hou

History 599. Thesis. Six hou

5. Political Science

Requirements for a Major in Political Science. Thirty semester hours.

Requirements for a Minor in Political Science. Twenty-one semester hours.

Political Science 111. American National Government. Three hou
The structure and function of our national government; political parties and th obligations of the citizen; public administration; the functions of the thre branches of national government.

Political Science 212. American State and Local Government. Three hou
The organization of the state government; state government at work; relatior ships between the states and government at the national level; local governmer in counties, small towns, and the large municipalities.

Political Science 221. Latin American Politics. Three hou
A survey of the governments and politics of Latin America.

Political Science 241. International Relations Three hour
Conflicts, international law, diplomatic practices, and the art of negotiation; th forces of anarchy, violence, colonialism, and nationalism; the challenge of Com munism, and the defense of democracy; international organizations.

Political Science 322. Government and Politics in Mexico and the Caribbean. Three hour
An analysis of government and political problems in contemporary Mexico an the Caribbean.

Political Science 342. Public Administration. Three hour
The executive branch of our national government at work; the providing o public services; the interaction of policy making and policy execution.

Political Science 351. Political Parties. Three hour
The rise, organization, methods, and place of the major and minor politica parties in the history of the nation. An intensive study of political leaders, plat forms, political issues and campaigns to the present time.

Political Science 445G. Contemporary International Problems Three hour
A study of selected problems in international relations arising from the worl changing political, economic, and social forces in western society.

Political Science 461G. American Diplomacy. Three hour
A study of American Diplomacy from pre-Revolutionary days to 1898. (Als History 461G).

Political Science 462G. American Diplomacy. Three hour
A study of American Diplomacy in the twentieth century. (Also History 462G)

Political Science 471. Political Theory and Thought. Three hour
The nature, scope, and methods of political science; development of politica thought from ancient to modern times; the philosophy of the ideological varia tions; the democratic concept of the function of government.

Political Science 481G. Comparative Government. Three hour
Attention is given to the political heritage, governmental structure, nationa administration, and social institutions of governments which are illustrative o the different types.

litical Science 495-496. Readings in Political Science. One to three hours
A course designed to allow specialized and independent reading in the field of the student's interest. Open only to Seniors.

ehavioral Sciences

Psychology Sociology Social Work

6. Psychology

Mr. Mays Mr. Martin Mr. Elder Mr. Childs

Requirements for a Major: Thirty semester hours.

Requirements for a Minor: Twenty-one semester hours.

Objectives: Courses in the psychology curriculum provide learning experiences in ee major areas: 1) a focal point in the liberal arts tradition; 2) preparation for graduate dies in psychology; 3) collateral experiences to support vocational and occupational paration in social service areas.

chology 111. Introduction to Psychology. Three hours
Emphasis on the study of human behavior and the ability of the individual to make adjustments to his environment. First and second semesters.

chology 210. Child Development. Four hours
Emphasis on recent child development theories with laboratory experience on a one to one ratio basis.

chology 245. Statistics for Behavioral Sciences. Three hours
An introductory course to prepare students to better understand the scientific analysis of psychological and sociological phenomena. Concepts and principles of descriptive and inferential statistics. (Also Sociology 245).

chology 351. Human Growth and Development. Three hours
Basic concepts for understanding the development of the child and the adolescent. Includes observation. First and second semesters.

chology 361. Psychology of Learning. Three hours
Basic concepts and principles of learning with emphasis upon human and animal laboratory studies.

chology 401G. Introduction to Counseling and Guidance. Three hours
Educational, sociological, and psychological foundations of counseling and guidance in schools, colleges and related service oriented agencies. Essential counseling and guidance services, policies, practice and procedures.

chology 402G. Counseling Theories and Techniques. Three hours
Basic theories, types, and techniques of counseling. Practice in individual and group techniques of interviewing. *Prerequisite:* Psychology 401G (also Education 401G) or permission of the instructor.

chology 411G. Educational Psychology. Three hours
Basic concepts related to mental development, appraisal and diagnosis, and learning theory applicable to educational practices.

Psychology 430G. Social Psychology. Three hou
Major emphasis is on problems involved in human relations. Designed to he the individual adjust to various groups and to acquaint him with some of tl techniques of leadership by which he may help to mold group thought ar action. (Also Sociology 430G).

Psychology 431G. Mental Hygiene. Three hou
Factors determining the development of personality in the individual; principl of mental health and problems involved in the dynamics of human adjustmer (Also Sociology 431G).

Psychology 441G. Measurement and Evaluation.
(See Education 441G).

Psychology 452G. Abnormal Psychology. Three hou
Mental disorder, changing conceptions of normality, the more common forr of mental disorders, their psychological interpretation, and the principles effective mental hygiene and psycho-therapy.

Psychology 460G. Theories of Personality. Three hou
Nature of personality structure and dynamics. Classical psychoanalysis, soci psychological, and stimulus-response theories included.

Psychology 461G. History and Systems of Psychology. Three hou
Origins of psychological thought within science and philosophy, tracing tl development of systems and theories within German, British, and Americ psychology.

Psychology 495-496. Problems in Psychology Three hou

Psychology 525. Psychology of Reading. Three hou
(See Education 525).

Psychology 595. Advanced Problems in Psychology. Three hou

7. Sociology

Mr. Eickhoff Mr. Bryant Mr. Pickett Mr. Thomas Mr. Mosley

Objectives: Courses in the sociology curriculum provide a scientific analysis social behavior and social organization designed to satisfy the needs of three kinds students: 1) those who intend to pursue graduate study in sociology leading to profe sional careers in teaching, research or administration; 2) those who wish to use sociol gy as background for certain occupations; and 3) those who wish to use work sociology as the focal point in a liberal education.

Requirements for a Major in Sociology: Thirty semester hours, including Sociolo 131.

Requirements for a Minor in Sociology: Twenty-one semester hours, includir Sociology 131.

Sociology 131. Introduction to Sociology. Three hou
The social interaction of persons and groups; man's cultural heritage and soci nature; analysis and principles of group life; forms of collective behavior; tl process of socialization; social structure, interaction and reorganization, inclu ing race relations and social class; a variety of social institutions: the famil education, religion, the economy, and politics; social change.

Sociology 221. Introduction to Anthropology. Three hou
A survey of the archaeological and biological history of mankind as it relates the development of man in his culture, with comparisons drawn between tl cultures of primitive people and Western Civilization.

ciology 245. Statistics for Behavioral Sciences. Three hours
(See Psychology 245).

ciology 271. Marriage and the Family. Three hours
Background experiences in the lives of young people leading up to courtship and marriage; the establishment and functioning of the home, with related biological and social factors. Emphasis upon changing attitudes toward family relationships, some of the problems involved, and suggested solutions. (Also Home Economics 271).

ciology 281. Current Socio-Economic Problems. Three hours
Scientific understanding of social problems; problem areas in contemporary American society; types of personal disorders and role impairment; the influences of social change on the structure of society. Attention is also given to the question of why certain forms of deviance become defined as social problems. (Also Economics 281).

ciology 311. Human Ecology. Three hours
Population distribution, growth, and composition, and its relevance to current economic, social, and political problems.

ciology 341. Methods of Behavorial Sciences Research. Three hours
Techniques of behavioral sciences research, including survey design and the collection, analysis, and interpretation of data. Lecture and laboratory.

ciology 342. Research Design. Three hours
Supervised research planning with emphasis on delimiting an area of research; designing instruments, and planning for data collection and analysis. *Prerequisite:* Sociology 341.

ciology 345. Appalachian Semester Orientation Seminar. Three hours
An introduction to Appalachian culture, including an introduction to the nature of dialects, analyzed from the viewpoint of linquistics and with reference to dialects of Appalachia.

ciology 349. Economics and Appalachian Poverty. Three hours
A theoretical and empirical study of the economics of poverty in Southern Appalachia with special emphasis on the major economic bases; including an examination of pertinent historical and geographic characteristics.

ciology 361. Social Welfare as a Social Institution.
(See Social Work 361).

ciology 371. Social Institutions Three hours
An examination of the structure and function of social institutions, with primary orientation within the American milieu. Particular emphasis on socialization, stratification, social change, and relations among institutions.

ciology 381. Minority Groups. Three hours
A social scientific study of the origin and organization of minorities and their effect on society, with particular emphasis on minorities in the United States. (Also Social Work 381).

ciology 421G. Rural and Urban Sociology. Three hours
Comparative and interrelated study of urban and rural life considering physical, institutional, social and economic factors of modern life in cities and in the countryside.

ciology 422G. The Southern Appalachian Region. Three hours
A theoretical and empirical analysis of the cultural and social characteristics of the Southern Appalachian Region from an institutional point of view.

Sociology 430G. Social Psychology.
(See Psychology 430G).

Sociology 431G. Personality and Social Adjustment.
(See Psychology 431G).

Sociology 441G. Cultural Anthropology. Three hour
Principles and methods of anthropology applied to modern and primitive socie ties. A cross-cultural survey and analysis of social institutions, religion, art, be liefs, values and languages of people in industrial and non-industrial societie A critical analysis of leading theoretical ideas in the field.

Sociology 460G. Sociological Theory. Three hour
The major theories which have proved useful in investigating the nature c society are examined as cultural products, ideologies, and scientific model Special attention is given to major figures such as Comte, Durkheim, Webe Merton, C. Wright Mills, White, and Sorokin in the emergence and convergenc of their theoretical development. Lecture and discussion in a seminar setting

Sociology 461G. Criminology. Three hour
A theoretical and empirical approach to crime and delinquency. A general surve of juvenile deliquency, corrective institutions, and crime prevention program

Sociology 472. Sociology of Religion. Three hour
A sociological analysis of religious belief systems utilizing the comparative c cross-cultural approach; social aspects of religion and religious aspects of socie ty; the impact of social and ecological forces upon religious institutions; soci origins of religions and denominations and the role of religion in social contr and social change.

Sociology 495-496. Problems in Sociology. To be arrange
Designed for advanced students who wish to do independent work on a specifi problem or to implement a research design in sociology. *Prerequisite:* Permissio of instructor.

Sociology 511. Educational Sociology.
(See Education 511).

Sociology 595. Directed Research. To be arrange
Designed for advanced students who wish to design and implement research o a specific problem in sociology.

8. Social Work

Mr. Neudecker Mr. Mann Mr. Harrod

Objectives: To provide a series of educational experiences which will: 1) perm the student to commence with a broad orientation to the field, serving as an entry t beginning social work practice; 2) enhance admission to graduate school; 3) develo an awareness of participatory democracy for purposes of useful citizen activity.

Union College has initiated negotiations with the Raymond A. Kent School c Social Work, University of Louisville, for the purpose of securing graduate credit i connection with certain other work done at Union College by students in the soci work major. Details are available from the Social Work Department.

Requirements for a Major in Social Work: A major will consist of thirty semeste hours, including Social Work 361, 371, 372, 391, 392, 460G; six hours of 300-400 leve electives within the Social Work curriculum; Psychology 210, Sociology 245, and Soc ology 341 or 342. It is recommended that students majoring in Social Work also d concentrated study in psychology, sociology, political science and economics. A list c recommended electives is available from the Social Work Department.

ocial Work 171. Fields of Social Work. Three hours
An introduction to Social Work, utilizing agency staff and clientele to develop a philosophy of service.

ocial Work 271. Marriage and the Family. Three hours
(See Sociology 271).

ocial Work 345. Appalachian Semester Orientation Seminar. Three hours
(See Sociology 345).

ocial Work 349. Economics and Appalachian Poverty. Three hours
(See Sociology 349).

ocial Work 361. Social Welfare as a Social Institution. Three hours
(See Sociology 361).

ocial Work 371-372. Methods of Social Work Practice I and II. Three hours each
Social Work 371 and 372 is a two semester study of social work practice and its methods. A concentrated effort is made to understand human behavior and common human needs, and a study is made of practice concepts of casework, groupwork and community organization. Some survey is included of newer interventive methods; special areas of interest and of the problem of social work practice. Social Work 361 is a prerequisite to Social Work 371, and Social Work 371 is prerequisite to Social Work 372.

ocial Work 380. Social Work with Children. Three hours
A survey of child welfare agencies, concentrating on the problems of adoption, protective services, juvenile deliquency and school adjustment. Special interest in modification of and use of social work skills in solving these problems.

ocial Work 381. Minority Groups. Three hours
(See Sociology 381).

ocial Work 385. Social Work in the Mental Health Setting. Three hours
A study of social work methods and contributions in the psychiatric setting, knowledge and understanding of human behavior, treatment of modalities and therapy with an emphasis on an interdiscipline approach in community treatment.

ocial Work 391-392. Social Work Field Practicum I and II Six hours each
Supervised practice experience in agencies, institutions or with other social systems. Students will spend approximately sixteen hours a week in the Field and will attend a regular seminar to coordinate the field and classroom experiences; application should be made in advance to the Department of Social Work. Students may elect to take a "Block Placement" by combining the two field practicums during one semester for a total of 5 days a week in the field or 40 hours. A supervisory seminar and independent study relating to the field experience are included in the 15 semester credit hours for the Block Placement. Students should register for Social Work 391, 392, and 495B for a Block Placement, and application should be made in advance to the Department of Social Work.

ocial Work 452. Abnormal Psychology. Three hours
(See Psychology 452).

ocial Work 460. Theories of Personality. Three hours
(See Psychology 460).

ocial Work 461. Criminology. Three hours
(See Sociology 461).

ocial Work 495, 496. Problems in Social Work. One to three hours
Individual or group projects relating to specifically identified interests. To be arranged with instructor.

9. Appalachian Semester

Mr. Mosley *Mr. Thomas* *Mr. Trauger* *Mr. Horton*

Mr. Oxendine *Mr. Neudecker*

Appalachian Semester 345. Appalachian Semester Orientation Seminar Three hours
(See Sociology 345).

Appalachian Semester 349. Economics and Appalachian Poverty. Three hours
(See Sociology 349).

Appalachian Semester 391-392. Social Work Field Practicum I and II. Six hours each
(See Social Work 391-392, but not available as Block Placement).

Appalachian Semester 422G. The Southern Appalachian Region. Three hours
(See Sociology 422G).

Appalachian Semester 495-496. Problems in Sociology. Six hours each
(See Sociology 495-496).

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The Rev. Dr. Donald H. Herren, Lexington, Ky. 40503

Mr. L. D. Sweazy, Versailles, Ky. 40383
The Rev. Dr. Ralph G. Wesley, Ft. Thomas, Ky. 41075
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Mr. Thomas A. Eastes, Louisville, Ky. 40201
Mr. Ernest M. Hampton, Louisville, Ky. 40207
The Rev. Dr. F. Bennett Hulse, Jr., Louisville, Ky. 40206
The Rev. Walter T. Jones, Louisville, Ky. 40229
Mr. James E. Parker, M.D., Louisville, Ky. 40205
The Rev. Roy E. Webster, Jeffersontown, Ky. 40299
Mr. William C. Yancey, M.D., Louisville, Ky. 40214

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Mr. John C. Anggelis, Lexington, Ky. 40507

Administration and Staff

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B.S., University of Pittsburgh; M. Div., Drew Theological Seminary; S.T.M., Drew Theological Seminary; D.D., Union College; Case Institute of Technology, evening, 1943-45; Western Reserve University, evening, 1945-46; Union Theological Seminary, summers 1948-1949; Zurich University, Switzerland, 1952-53; Tuebingen University, Germany, 1953-54.

Charles C. Saddler, Jr. — Assistant to the President
A.B., Oakland City College; M.A., University of Illinois; Colorado State College of Education, summer 1950.

Conway Boatman — President Emeritus of the College
A.B., M.Div., M.A., D.D., L.H.D.

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ue Dannel McDade — Registrar
B.S., Union College.

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Mildred E. Maggard — Student Loan Officer

Nola M. Williams — Assistant to the Bookkeeper

Boyd R. Todd — Business Manager
A.B., Union College; M.A., Union College.

oe C. Hacker — Director of Data Processing Center
Assistant Professor of Business
B.S. in Ed., Union College; M.A., Eastern Kentucky State College; Workshop in Family Finance, University of Georgia, summer 1962; University of Tennessee, summers 1963, 1964, 1966.

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B.S., Union College.

Bobbie Burgess — Bookstore Clerk

sten P. Parks — Post Office Clerk

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B.S., Union College

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B.S., Union College; M.A., University of Kentucky; Eastern Kentucky University, fall 1966; Union College, summer 1970.

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Director of the Student Center
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A.B., Morehouse College; University of Missouri School of Social and Community Services, fall, 1966; D.D., Simmons University.

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R.N., Nazareth School of Nursing.

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B.S., M.A., Union College.

Timothy B. Hinderlight — Admissions Counselor
B.S., Cumberland College

John A. Schilt — Admissions Counselor
B.S., Union College

Catherine F. Singer — Director of Alumni Affairs
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(on leave, 1971-73)

Eugene Branstutter — Acting Superintendent of Buildings and Grounds (1971-73)

Williard Sprinkles — Plant Engineer

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B.A., University of South Carolina; M.M., University of Illinois. Studied piano with Hugh Williamson, Howard Karp, Soulima Stravinsky and Webster Aitken. Studied organ with Gordon Beaver and Jerald Hamilton. University of Illinois, summers 1967-1968; University of North Carolina, summer 1969.

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John H. Boyd ..... Dean of the Graduate School
Andrew R. Eickhoff ..... Dean of the Faculty
Sue McDade ..... Registrar

Graduate Council

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Andrew R. Eickhoff	Dean of the Faculty
C. Wesley Simms	Chairman Division of Education
Erwin S. Bradley	Chairman Division of Social Studies
Frank Merchant	Graduate Professor of English
Deril K. Mays	Head of the Department of Behavioral Sciences

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Professor of Education

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and Political Science

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Riley Elder, B.S., Ph.D.
Assistant Professor of Psychology

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Harry Zuger, B.A., M.A., Ph.D.
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Health Services

le Robbins, R.N. ..... College Nurse
Moore, R.N. ..... Part-time College Nurse

Geographical Distribution of Students

1972-73 Academic Year
First Semester

States

California 2
Connecticut 12
Delaware 5
District of Columbia...4
Florida 6
Georgia 1
Illinois 5
Indiana 1
Maryland 6
Massachusetts 19
Michigan 4
Missouri 1
New Hampshire 1
New Jersey 79
New York 62
Ohio 46
Pennsylvania 4
Rhode Island .....
Tennessee 6
Texas .....
Utah .....
Virginia 4
Wyoming .....

Foreign Countries

India 1
Iran 24
Nigeria 1
South Vietnam 2
Sweden .....
Thailand .....

Kentucky Counties

Barren 1
Bell 45
Boone 2
Boyd 2
Boyle 1
Breathitt 1
Campbell 10
Carroll 2
Casey 2
Clay 42
Clinton 1
Fleming 1
Floyd 1
Franklin 1
Hardin 1
Harlan 61
Harrison 2
Henry 1
Jackson 1
Jefferson 7
Kenton 2
Knott 1
Knox 188
Laurel 17
Lee 6
Leslie 1
Letcher .....
Madison .....
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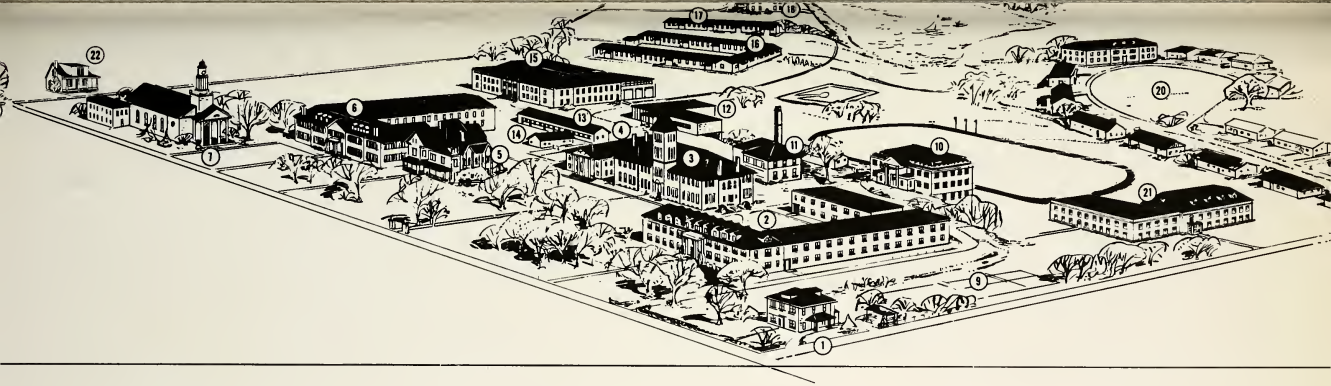
Religious Life ..... [illegible]
Room and Board ..... [illegible]
Saturday Classes ..... [illegible]
Scholarships ..... [illegible]
Social Life ..... [illegible]
Sociology, Courses in ..... 1[illegible]
Special Programs ..... [illegible]
Special Students ..... [illegible]
Speech, Courses in ..... [illegible]
Student Aid:
Applications for ..... [illegible]
Standards for receiving ..... [illegible]
Student Conduct ..... [illegible]
Student Load ..... [illegible]
Student Organizations ..... [illegible]
Summer Session ..... [illegible]
Teacher Certificates:
Provisional Elementary ..... [illegible]
Provisional High School ..... [illegible]
Terms of Payment ..... [illegible]
Veterans Affairs ..... [illegible]
War Orphans Education ..... [illegible]
Washington Semester ..... [illegible]
Workships ..... [illegible]
Work-Study Program ..... [illegible]



1. Baldwin Place, President's Residence
2. Stevenson Hall, Men's Residence
3. Classroom Building
4. Library
5. Speed Hall, Administration Building
6. Pfeiffer Hall, Women's Residence
7. Conway Boatman Chapel—Fine Arts Building
8. Home Economics Building
9. Tennis Courts
10. Dramatic Arts Center
11. Business Department
12. Student Center
13. Chemistry and Physical Science Laboratories
14. Data Processing Center
15. Physical Education Building and Swimming Pool
16. College Courts, Married Students' Apartments
17. College Courts Addition
18. Lakeside Hall, Men's Residence
19. Lakeside Lanes
20. College Park, Faculty Housing
21. Science Building (Under Construction
22. Mental Health Center

McFerrin

union college in kentucky

1974-1975

DIRECTORY FOR CORRESPONDENCE

Academic Work ..... *Dean of the Faculty*
Admission to the College ..... *Director of Admissions*
Admission to the Graduate School ..... *Dean of the Graduate School*
Alumni Affairs ..... *Alumni Secretary*
Applications for Admission, Catalogs ..... *Director of Admissions*
Charges and Payments of Bills ..... *Business Manager*
Gifts and Bequests ..... *Director of Development*
Housing for Women ..... *Dean of Women*
Personal Welfare, Health of Students, Housing (Men) ..... *Dean of Students*
Scholarships, Workships and Loans ..... *Director of Student Aid*
Transcripts—Academic Records ..... *Registrar*

LOCATION AND TELEPHONES

All offices are located in Speed Hall unless otherwise noted. The telephone number for Union College is (606) 546-4151. The extensions listed will contact you with the appropriate office.

President ..... Extension 111
Dean of the Faculty ..... Extension 124
Dean of the Graduate School ..... Extension 112
Business Manager and Treasurer ..... Extension 115
Dean of Students ..... Extension 118
Dean of Women . . . Pfeiffer Hall ..... Extension 141
Office of Public Information ..... Extension 110
Office of Admissions ..... Extension 117
Office of Development ..... Extension 195
Office of Financial Aid ..... Extension 171
Registrar ..... Extension 114

Vol. XXXVI UNION COLLEGE BULLETIN No. 1
March, 1974

PUBLISHED QUARTERLY
UNION COLLEGE
BARBOURVILLE, KENTUCKY 40906

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A College With a Purpose

Union College, affiliated with The United Methodist Church, is a nonsectarian coeducational institution serving students without regard to race, creed, or color. The college, limited by design to approximately 1200 students, emphasizes stimulating teaching and a concern for individual needs. Classes are small, the curriculum is flexible, opportunities for counseling and guidance are abundant, and widespread student involvement in institutional governance aids in the development of responsible leadership.

As a liberal arts institution, Union College seeks to help its students acquire a broad general education which includes an understanding of other cultures. In addition, the curriculum provides both professional and preprofessional study opportunities in selected fields. Four undergraduate degrees are offered, including Bachelor of Science, Bachelor of Arts, Bachelor of Music, and Associate of Science. The Graduate School curriculum, focusing on the needs of public school personnel, leads to the Master of Arts in Education degree.

Although Union College gives priority to its teaching responsibilities rather than research and public service, opportunities are provided for students to mature and learn through guided research and service experiences. The campus atmosphere stimulates intellectual curiosity and academic competence, encourages commitment to Christian ideals, and supports the development of the spiritual, social and physical resources needed to live creatively in a changing world.

History of Union College

Union College was founded in 1879 by a group of progressive citizens of Barbourville who formed a stock company and secured the main part of the present campus. In 1880 the first building was formally opened on the site of what is now known as the Classroom Building.

The college was purchased by the Kentucky Conference of the Methodist Episcopal Church in 1886 and Daniel Stevenson, President of Augusta Collegiate Institute at Augusta, Kentucky, was made President of the reorganized institution. During the next administration, the college came into possession of the bequest of Mrs. Fanny Speed. Speed Hall, Stevenson Hall and the Classroom Building were constructed.

The college department was discontinued in 1908 and for eight years the institution was maintained as a Junior College, an academy, and an elementary school. It became a *bona fide* college again in the Presidency of Ezra T. Franklin, who inaugurated a program of development during which the Memorial Gymnasium and a home for the President were built, and the invested funds of the college were materially increased. In 1927 the College had been accredited by the University of Kentucky as a four-year college of A grade.

President John O. Gross emphasized the improvement of the curriculum and the building of a strong faculty. His ambition was to see Union College fully accredited. In 1931 it was accredited by the University Senate of the Methodist Episcopal Church, and in 1932 full accreditation was realized when it was made a member of the Southern Association of Colleges and Schools. The Board of Regents of the University of the State of New York placed Union College on its accredited list in 1937. During this administration land adjacent to the campus was purchased, a maintenance building was erected, and the financial structure was reorganized.

In Conway Boatman's twenty-one years of leadership the college achieved marked progress in both its educational and plant improvement programs. Seven new buildings were completed and others were enlarged. The curriculum was expanded, endowment funds were increased and a markedly improved program of faculty salaries and benefits was adopted.

Mahlon A. Miller was elected to the presidency in 1959. In 1960 a Master of Arts in Education degree program was introduced and plant expansion continued with the development of College Park, a faculty residential area, followed by the construction of additional student housing, a physical education building and student center. The latest addition, a Science Center, was completed in 1973.

The college has always accepted a special mission to Appalachia, a thrust that is now being strengthened with unique academic programs based on regional characteristics, expanded student financial aid, student community service projects, and new career-oriented curricula. As the college moves toward its centenary, it is expanding and enriching its service to Appalachia while at the same time fulfilling the needs of the many students from other states who come to Union College for an education.

Location, Campus and Buildings

Union College is located in Barbourville, a residential town of three and a half thousand, on U.S. highway 25E halfway between Lexington, Kentucky, and Knoxville, Tennessee. The historic Wilderness Road runs along the eastern edge of the campus. The Cumberland Gap National Historical Park is thirty-five miles away. The Doctor Thomas Walker State Park is four miles from the campus and in adjoining counties are the Cumberland Falls State Park, the Levi Jackson State Park and the Pine Mountain State Park.

The county seat of Knox County, Barbourville is served by Greyhound buses enroute to Knoxville, Lexington, Louisville, Cincinnati, and Harlan. The London-Corbin Airport, approximately thirty-miles from the campus, is served by the Piedmont Airlines.

On one of the older campuses of the South, Union College is proud of its Georgian colonial buildings. Shaded by overhanging elms, the red brick buildings give the campus a majestic charm of dignity and beauty.

Speed Hall (Administration Building), 1897-1905. A gift from the estate of Mrs. Fanny Speed of Louisville, Ky. Her bequest also partially financed the building of the Classroom Building and Stevenson Hall.

Classroom Building (formerly the Administration Building), 1907.

Stevenson Hall — Men's Dormitory, 1907. Wings added 1956.

Dramatic Arts Center, 1919.

Baldwin Place, the home of the President, 1925. The gift of Mr. and Mrs. F. E. Baldwin, Elmira, N.Y.

Maintenance Building, 1938, equipped by a gift from the estate of Robert Norton, New Albany, Indiana.

Abigail E. Weeks Memorial Library, 1941. Furnished by a gift from Mrs. Abbie E. Stewart.

Veterns Building, 1942. Classrooms and laboratories (to be demolished).

Pfeiffer Hall — Women's Dormitory, 1942. Wing added 1960. The original wing was a gift from the estate of Mr. and Mrs. Henry Pfeiffer of New York City.

Home Economics Building, 1946.

Conway Boatman Chapel and Fine Arts Building, 1949.

College Courts — Residences for married students, 1954. Expanded in 1964.

Data Processing Center, 1973.

Physical Education Building, 1964, including the Swimming Pool, 1957.

Lakeside Residence Hall, Men's Dormitory, 1964.

Student Center, 1964.

College Park, 1960. Faculty residential area.

Langford Apartments, 1962. Housing for faculty and staff.

Environmental Education Center, Cumberland Gap National Historical Park, Middlesboro, 1970.

Mahlon Miller Science Center, 1973.

College Calendar 1974-1975

SPECIAL NOTE: If weekend travel is prohibited during the energy crisis, dates for registration, opening of dormitories, and other events may be adjusted. If exact dates are needed, please contact the Public Information Office for any changes.

Summer Session 1974, First Term

June 2, Sunday	Dormitories open, 8:00 a.m. First meal served college dining hall, 5:00 p.m.
June 3, Monday	Registration for first term.
June 4, Tuesday	Classes begin, 7:30 a.m.
June 5, Wednesday	Last date to register for first term and last date for filing application for a degree in August.
June 28, Friday	Last date to drop a course.
July 5, Friday	First term ends, 4:00 p.m.

Summer Session 1974, Second Term

July 8, Monday	Registration for second term.
July 9, Tuesday	Classes begin, 7:30 a.m.
July 10, Wednesday	Last date to register for second term.
August 2, Friday	Last date to drop a course.
August 9, Friday	Summer Session Commencement, 10:30 a.m. Last meal served in college dining hall, 12:00 noon. Dormitories close, 4:00 p.m.

Fall Term 1974

September 7, Saturday	Faculty Conference.
September 8, Sunday	8:00 a.m., dormitories open for all students. 12:00 noon, first meal served in dining hall; 1:30 p.m., registration for freshmen; 7:30 p.m., Orientation Program for freshmen and transfer students, attendance required.
September 9, Monday	Freshman Orientation (continued)
September 10, Tuesday	8:30 a.m., Registration for upperclassmen.
September 11, Wednesday	Classes begin, 8:00 a.m.
September 14, Saturday	Registration of in-service teachers for Saturday classes.
September 21, Saturday	11:30 a.m., last day to add a class and apply for graduation for January 1975.
October 18, Friday	Founder's Day Convocation, 10:20 a.m.
November 2, Saturday	Mid-semester vacation begins after last class.
November 3, Sunday	Dormitories close 12:00 noon.
November 4, Monday	Mid-semester grades to be reported to the Registrar by 9:00 a.m.
November 10, Sunday	Dormitories open 12:00 noon. First meal served in college dining hall, 5:00 p.m.
November 11, Monday	Classes resume 8:00 a.m.
November 13, Wednesday	Last day to drop a course or change to elect a course for Cr/NCr.
November 21, Thursday	Thanksgiving Day Holiday.
November 22, Friday	Classes resume 8:00 a.m.
December 16-20	Final Examinations.
December 20, Friday	Christmas Vacation begins after last examination. Last meal served in college dining hall, 5:00 p.m.
December 21, Saturday	Dormitories close 12:00 noon.
January 5, Sunday	Dormitories open 12:00 noon. First meal served in college dining hall, 5:00 p.m.

January Interim 1975

January 6, Monday	Interim Term begins.
January 31, Friday	First Semester ends.

Spring Term 1975

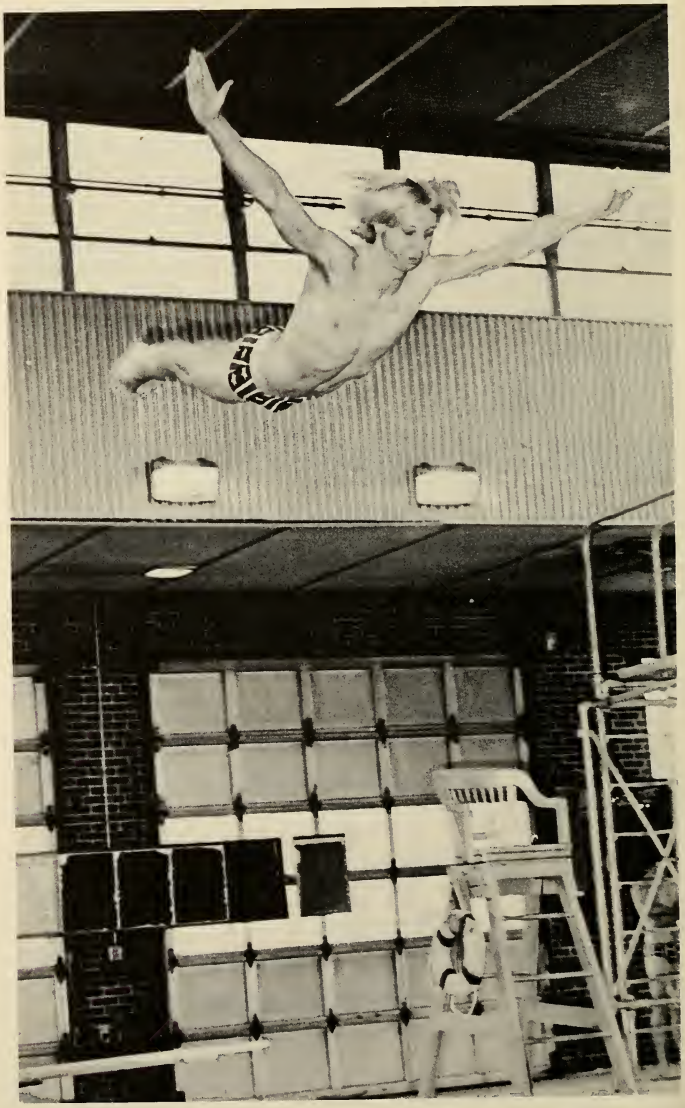
February 1, Saturday	Registration of in-service teachers.
February 3, Monday	Registration for second semester.
February 4, Tuesday	Classes begin 8:00 a.m.
February 15, Saturday	Last date to add a class and last date one may file for graduation in May, 1975.
March 29, Saturday	Mid-semester marks to be reported to the Registrar by 12:00 noon. Spring Vacation begins after last class. Last meal served in dining hall, 5:00 p.m.
March 30, Sunday	Dormitories close, 12:00 noon.
April 6, Sunday	Dormitories open 12:00 noon. First meal served in the college dining hall, 5:00 p.m.
April 7, Monday	Classes resume 8:00 a.m.
April 9, Wednesday	Last day to drop a course and last day to elect a course for Cr/NCr.
May 1, Thursday	Honors Day Program, 10:20 a.m.
May 8, Thursday	Final Examinations begin.
May 9, Friday	Ninety-fifth Annual Commencement, 2 p.m.
May 10, Saturday	Saturday classes meet.
May 12-14, Monday through Wednesday	Final Examinations.
May 15, Thursday	Last meal served in the college dining hall, 12:00 noon.

Summer Session 1975, First Term

June 1, Sunday	Dormitories open, 8:00 a.m. First meal served in college dining hall, 5:00 p.m.
June 2, Monday	Registration for first term.
June 3, Tuesday	Classes begin 7:30 a.m.
June 4, Wednesday	Last date to register for first term and last date for filing application for a degree in August.
June 27, Friday	Last date to drop a course.
July 3, Thursday	First term ends, 4:00 p.m.

Summer Session 1975, Second Term

July 7, Monday	Registration for second term.
July 8, Tuesday	Classes begin, 7:30 a.m.
July 9, Wednesday	Last date to register for second term.
August 1, Friday	Last date to drop a course.
August 8, Friday	Summer Session Commencement, 10:30 a.m. Last meal served in college dining hall, 12:00 noon. Dormitories close, 4:00 p.m.



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Academic Requirements

Student Load

The normal undergraduate student load is sixteen semester hours per semester. Students who have an average academic standing may register for a maximum of eighteen semester hours credit per semester. Students who attain a "B" average are permitted to earn up to twenty-one semester hours per semester. Exceptions must be approved by the Dean of Faculty.

The January Interim is considered part of the first semester. For the September-December period student semester hour registration should be reduced by four semester hours from the normal undergraduate student load. Exceptions must be approved by the Dean of the Faculty.

The normal graduate student load is two-thirds that of the undergraduate.

The maximum load in each summer term is generally six semester hours. Students whose cumulative grade point average is "B" or better may request permission from the Dean of the Faculty to take seven hours a term. Graduate students may take a maximum load of only six semester hours.

Class Attendance

1. Class attendance is required. Each student is responsible for all work from the first day of class and is expected to attend all meetings of the class for which he is registered. This is regarded as a matter of individual student responsibility.
2. All faculty members are expected to keep accurate records of class attendance.
3. Class absences due to circumstances beyond the control of the student will be excused by the Dean of the Faculty if request is made within one week of return to the campus. Class work or tests in these classes must be made up.
4. Class work and tests missed due to the illness of the student can be made up only when the student presents the teacher with an excuse card signed by the College Nurse, within one week after he returns to the campus.
5. Class work and tests missed by a student while he is participating in an activity sponsored by Union College will be made up only when the faculty sponsor of such an activity and the Dean of the Faculty sign the official absence list of students.
6. *A student is not automatically withdrawn when he stops attending a class.* Official withdrawals are made only on forms provided by the

Registrar's Office. It is the student's responsibility to complete this form, obtain the signatures needed, and return it to the Registrar's Office.

General Assembly Programs

Full-time students must earn one academic credit for graduation by attending General Assembly Programs (GAP). Sixteen assemblies will equal one semester hour credit. The one mandatory academic credit must be earned within four consecutive semesters' residence at Union College, with all GAP credits accumulated outside this period allowed toward additional academic credit, up to a maximum of four semester hours. No fee is charged for academic credit earned in attending assemblies. Students who attended assemblies before this official program for credit was approved, effective January 28, 1972, may check on their current assembly credit standing. Transfer students with less than 78 hours must earn the one mandatory semester hour of credit by attending assemblies.

Examinations and Reports of Marks

Examinations are held at the close of each semester. Tests are held at such times during each semester as the instructors may determine. Final marks are reported by the instructors to the Registrar. A copy of this report is given to the student, and a copy is sent to his parents. Only the final marks become a part of the permanent record.

The Marking System and Quality Points

Marks are reported in letters as follows:

A. — Represents distinctly superior work, valued at four quality points for each semester hour.
B. — Represents above average work, valued at three quality points for each semester hour.
C. — Represents average work, valued at two quality points for each semester hour.
*Cr. — Indicates that a course has been passed satisfactorily.
D. — Represents inferior but passing work, valued at one quality point.
F. — Indicates failure with 0 credits and 0 quality points for each semester hour.

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*Students may take two courses per calendar year on a Credit/non-Credit basis. Only two courses may be taken in a single discipline. A student must apply in the Registrar's Office for Cr/non-Cr before the last date for withdrawing from a course. When the instructor turns in a letter grade at the end of the semester, a D or above will be recorded as Cr.; an F will not be recorded at all, but the student loses the credit hours. This Cr./non-Cr option encourages students to take courses they otherwise might not attempt. The semester hours earned by Cr. count, but no quality points are earned.

W. — Indicates that a student withdrew during the first nine weeks of the semester.

I. — Indicates that some required work of the course has not been completed.

An "I" received at the end of any semester must be removed before the end of the next semester if the student is enrolled for that term. If the student is not enrolled, the "I" must be removed before the end of the 12-month period following the date on which the "I" was received. If an "I" is not removed within that time limit, it automatically becomes "F"

A student who does not take final examinations at the end of a semester will be given temporary registration in the next semester within the time allowed for registration. If all arrangements for taking final examinations are made within this period, the temporary registration will become a permanent registration. If arrangements for the final examinations are not made, the student's registration will be cancelled. All final examinations for courses which are prerequisite to courses in which the student may be enrolled the next semester, must be taken by the end of the registration period. Failure in any of these prerequisite courses will cancel the student's enrollment in an advanced course.

Quality Point Standing

The quality point standing of a student is determined by dividing the total quality points which he has earned by the total number of semester hours for which he has registered minus the number of hours of Cr. on his record.

Honor Students

Union College recognizes excellent scholarship in two ways — the dean's list and graduation with honors. During the regular semester, full time students who have earned a 3.00 average for the semester are placed on the dean's list. See page 19 for "Degrees with Distinction."

Probation

Each student is expected to do "C" work. A student with a standing less than "C" is placed on academic probation for the following semester. He may continue in college on probation an additional semester if his work and character indicate his ability to succeed. *A student who has once been on probation may be dropped at any time his academic standing falls below a "C" average.*

Suspension

Union College will not accept any credits earned at another institution while a student is under academic or disciplinary suspension from Union College.

Proficiency Examinations

With the consent of a professor, a student may take an examination and if the score is satisfactory, the normal semester hours of credit will be granted. Only credit may be earned by examination; no quality points are earned. Union College is also a regional testing center for the College-Level Examination Program, which provides credit for material mastered through self-study or unaccredited classes (See Special Programs section).

Inter-Departmental Courses

In several departments, provision is made for allowing courses outside the department to be counted on a major or a minor. Such courses are termed Inter-departmental Courses. They are governed by the following regulations.

1. The student's major professor must give permission for enrollment in any Inter-departmental Course which is to be counted on a major or a minor.
2. At the time of registration the student must decide the department in which he wishes a given Inter-departmental Course to be counted.

Extension and Correspondence

Any student planning to graduate from Union College must receive permission from the Registrar to register for correspondence or extension courses. Credits cannot be recorded unless prior arrangements are made.

Students enrolled for a full-time program of study shall defer work on all correspondence and extension courses during the term for which they are registered.

Not more than twelve semester hours of correspondence or extension work done in one academic year will be accepted by the College. Not more than one-fourth of the courses in a major may be done by extension. Not more than thirty-two semester hours of extension and correspondence credit will be accepted toward a degree.

Not more than six semester hours extension or correspondence may be accepted during the senior year. Students with sixty semester hours or fewer at Union may offer six semester hours non-residence in the last thirty-six; students with sixty-one semester hours or more may offer six semester hours out of the last twenty-four.

Failures or quality point deficiencies in any course done in residence cannot be removed by extension or correspondence work.

Graduating seniors must complete any correspondence work needed for graduation at least three weeks before the date of Commencement.

Graduation Requirements

Requirements for Graduation, Bachelor of Arts Degree, Bachelor of Science Degree, and Bachelor of Music Degree (See Music Section).

The candidates must satisfy the following requirements:

1. Minimum of 128 semester hours. Thirty of the last thirty-six must be earned in residence at Union College. Students who have earned as many as sixty-one semester hours at Union College may graduate with only eighteen of the last twenty-four hours earned in residence. At least forty semester hours must be in courses numbered 300 and above.
2. Quality point standing of 2.00 overall and at Union. No grade below "C" can be accepted on a major or a minor.
3. Completion of the following General Requirements:
   I. Humanities: 18 semester hours
      Approved courses in art; drama and speech; music; foreign language; religion; philosophy; English language and literature. (other than English 355).
   II. Social Science: 9 semester hours
      history; political science; psychology*; sociology; economics; geography.
   III. Natural Sciences: 8 semester hours
      biology; chemistry; math; physics; physical science.
      a. In I. and II. no more than six hours may be taken in any one discipline. In III. all eight hours may be taken in one discipline.
      b. Hours taken for a first major may not be counted toward the Group Requirements.
      c. Students taking a 48-semester hour area may count the area hours toward the Group Requirements.
      d. In addition to the above-listed Group Requirements all students must complete six hours of English composition.
4. For the Bachelor of Arts degree, two years of a foreign language offered by the college are required plus other graduation requirements. Students who have had a foreign language in high school should apply to the Head of the Department in regard to placement.

   Students who have had the equivalent of two years of foreign language at another college should see the Head of the Language Division about the requirements in language for graduation from Union.
5. For the Bachelor of Science degree the student must meet all graduation requirements, including a major or area. A foreign language may or may not be required as determined by the individual discipline.
6. Union College offers a Bachelor of Music degree. See Music Section for these requirements.

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*Not acceptable as a Social Science in the Teacher Education Program.

7. Completion of either:
   a. A major of 24-30 semester hours as determined by the faculty of the individual discipline.
   b. An area of 48 semester hours, the structure of which is determined by the faculty of the Division in which the area requirements are met.

      Majors are offered in accounting, art, biology, business, chemistry, community health, drama, elementary education, English, health education, health and physical education, history, home economics (non-vocational), mathematics, music, philosophy, physics, political science, psychology, religion, secondary education, social work, and sociology.

      Areas are offered in business, English, environmental studies, health and physical education, music and science.

      A student may elect to take a minor of 21 semester hours. Minors are offered in the major fields listed above, plus economics, library science, and secretarial practice.

      The course requirements for majors, minors, and areas are listed under the respective divisions of instruction.

      At registration, Juniors must indicate the major (and minor if elected) field of study on forms furnished by the Registrar. The Heads of curricula will advise, during registration, those students majoring in their curricula.
8. At least forty semester hours offered for graduation must be earned in junior and senior courses (300 and above); at least six semester hours 300 and above earned at Union, must be included in any minor; at least nine semester hours 300 and above, earned at Union, must be included in any major; at least twelve semester hours 300 and above (evenly distributed in the two fields if this is a combined major), earned at Union, must be included in a thirty hour major; at least eighteen semester hours 300 and above, earned at Union, must be included in an area.
9. At registration each senior must specify the tentative date on which he expects to graduate.
10. Advice in arranging schedules and choosing courses is always given gladly; however, each student is responsible for completing all requirements.

Associate Degrees

Union College offers Associate of Science degrees in accounting, computer science, and office practice. See the business curriculum for additional information. An Associate of Science degree is also offered in human services, with specialization in either social work or mental health. See the behavioral

sciences curriculum for further information. Two-year degree programs are also under development in other subject areas.

Combined Degrees

The bachelor degrees may be granted to students who have completed three years of work at Union College and one year of work in an accredited professional school, with the following provisions:

1. The work in the professional school must continue the curriculum in which the student has been enrolled at Union College (prelaw, predentistry, premedicine, etc.)

2. The student must have completed satisfactorily the minimum requirements for three years of pre-professional work at Union College (ninety-six semester hours with a quality-point standing of at least 2.00) and also the general college requirements for graduation, including the foreign language requirement if a B.A. is desired.

3. The student must have completed satisfactorily the minimum requirements for one year of study at the accredited professional school in which he is enrolled. The number of credits at the end of the four years of study must total at least 128 semester hours.

Degrees With Distinction

Honors in scholarship are recorded on the diplomas of the students winning them, and published on the Commencement program. There are three grades of honors designated respectively: *cum laude, magna cum laude,* and *summa cum laude*. These honors are conferred at graduation upon students who satisfy the following conditions of scholarship:

The honor of *cum laude* is awarded to those students who have earned an average standing of 3.0(B), overall and at Union.

The honor of *magna cum laude* is awarded to those students who have earned an average standing of 3.5 overall and at Union.

The honor of *summa cum laude* is awarded to those students who have earned an average standing of 3.8 overall and at Union.

Students coming from other colleges may receive general honors on completing 61 semester hours of resident study and satisfying the conditions of scholarship prescribed by the faculty, provided they furnish also such evidence of high scholarship in the institution from which they come as may, in the judgment of the faculty, entitle them to become candidates for honors under the regulations.

As a reward for excellence in scholarship and to promote diligence in study and encourage high ideals, the honorary scholastic fraternity of Iota Sigma Nu was founded on May 26, 1936. Membership is open upon election to:

(a) All who have met the requirements for graduation with honors.

(b) All students who have at least 74 hours with a 3.2 quality point standing or 100 hours with a 3.0 quality point standing and who have completed a minimum of two years in residence at Union College.

Planning Curriculum

At the beginning of the junior year, a planned curriculum will be made out by the Registrar's Office at the student's request. This is a binding agreement between the college and student. Once the curriculum has been completed only changes approved by the Registrar are binding on the college.

Making friends at the Environmental Education Center.

Appalachian Semester students hear folk singer Jean Richie.

Special Programs

Advanced Placement

Students at Union College who have had superior preparation in certain curricular areas have regularly been placed in advanced course sections. In certain cases credit will be given by an examination administered by the Head of the Department. The college will also grant academic credit to those incoming freshmen who have successfully participated in the Advanced Placement Program of the College Entrance Examination Board. Interested students should consult the publication "Advanced Placement Program" of the College Board Advanced Placement Examinations, Box 592, Princeton, N.J., and their High School Guidance Counselors. Further information on the program may be obtained from the Registrar or the Dean of the Faculty.

Union College also accepts credit earned under the College Level Examination Program (CLEP). Up to thirty hours credit may be earned through examinations.

Advanced Placement for Veterans

Academic credit is granted to veterans for advanced placement, in accordance with the American Council on Education. Up to 60 semester hours will be granted, on a combined basis, from College Level Examination Program (CLEP) tests, courses approved by the U.S. Armed Forces Institute, credit from service schools, correspondence and extension courses. Additional information on advanced placement for veterans may be obtained from the Dean of the Faculty or Admissions Office.

Pre-Registration

The college makes arrangements for all students to pre-register for courses. Pre-registrations are validated and fees are paid on the official registration date. Students are able to consult with faculty in their offices and receive more careful guidance with pre-registration rather than the traditional one or two-day registration procedures. Students may make changes in pre-registration of classes, with no charge, as late as the official registration date. Freshmen and transfer students are encouraged to register by mail before coming to the campus. These innovations are intended to assist the students in receiving as much guidance as possible, and make registration procedures as simple and convenient as possible.

January Interim Term

The first semester has been divided into two parts, from September through December, and a separate term and registration for January. The work completed for January receives four semester hours credit and is required for all full-time students. During the January Interim term, special projects and courses are offered, both on and off campus. Students may select certain work-study arrangements, foreign study projects, regular courses, and independent study projects. The tentative schedule for the January Interim is available in the spring, and final decisions and registration take place about October 1. The January Interim is intended to provide students with unusual and challenging opportunities to broaden and further their education.

Environmental Studies Program

The college operates a special campus in nearby Cumberland Gap National Historical Park as a unique Environmental Education Center. The campus includes 15 buildings and 100 acres within the huge park. On the undergraduate level, the college offers an area in environmental studies, which provides the student with a solid background in a specific discipline and an area of environmental emphasis. A student may select the field of his intellectual interest; for example a student interested in ethical issues relating to our environmental value system might combine a major in philosophy with economics and environmental studies. Many discipline combinations are possible, which can prepare the student for additional study and employment in his chosen discipline or in fields such as environmental engineering, city management, and urban planning. A Graduate Workshop is offered in environmental studies each summer.

Students who wish to earn a 48-semester hour area in environmental studies should consult with the Dean of the Faculty. All such programs are individually planned to fit a student's interests and abilities.

The Environmental Semester

Held each fall and spring at the Union College Environmental Education Center in the Cumberland Gap National Historical Park, the Environmental Semester offers students from Union and other colleges a unique educational opportunity. The program is a full semester of concentrated, interdisciplinary study of the environment, including important scientific and sociological aspects of the vital issues facing the world today.

The curriculum includes, in addition to basic ecological principles, a study of air and water pollution, population problems, resources and energy, waste disposal, land use and planning, urban and suburban environments, pesticides, noise, and environmental education. Activities include lectures, field trips, research projects, reports, seminars and informal discussions.

Union College is accredited by the Southern Association of Colleges and Schools, and all credit earned may be transferred to the student's resident

college or university. The program is divided into seven units (one to three hours each), with separate evaluations for each, totaling 16 hours of upper division credit. Two of the courses earn biology credit; in the other five, credit may be taken in biology or sociology, depending on the needs of the student.

The Environmental Semester is designed for college students who have completed basic courses in the social and natural sciences, and have completed at least the first semester of their sophomore year. For more information write to the Director, The Environmental Semester, Union College Environmental Education Center, Middlesboro, Kentucky 40965.

College for High School Students

Superior high school students, recommended by their Principals, are permitted to take certain college freshmen courses in the summer sessions between their junior and senior years in high school and between their graduation and the opening of the regular fall semester. Credit earned in these courses will be recorded after the student has been regularly admitted to college following his graduation from high school, and after he has completed twenty-four semester hours at Union with a "C" average.

School Social Worker

The college offers a curriculum to prepare students for positions as School Social Workers. The Kentucky Department of Education has approved the curriculum and graduates receive certification. Further information on this program is available from the social work professor.

Honors Program

Superior students with a minimum grade point average of 3.50 are eligible to apply for honors work in their major fields. Students admitted to Honors candidacy are expected to be capable of creative independent study and research. They are subject to general college rules pertaining to the departmental major. The immediate supervision of the program will be the responsibility of the major department but important changes in the program will be reviewed by the Honors Committee. A student may register for no more than three hours credit for each semester of his senior year. He may be dropped from the Program if in the judgment of his department he is unable to do the work. An Honors Thesis is required as well as an oral examination before a committee of four professors, including the major professor and two professors outside of the department. A copy of the Honors Thesis must be deposited with the college library.

Junior Year Abroad

In accordance with the policy of encouraging students to study abroad, Union College will give academic credit to students who participate in the Junior Year in Freiburg or the junior year program of the American College

at the University of Poitiers. Interested students should apply to the head of the Department of Languages.

Saturday Classes

To accommodate in-service teachers a number of classes are offered on Saturday each semester. Six semester hours of undergraduate or six semester hours of graduate credit may be earned. The requirements for admission are the same as for regular classes. *For further information write to the Dean of the Graduate School, Union College, Barbourville, Kentucky.*

Extension Program

Extension courses will be offered in communities throughout Southeastern Kentucky when requested by the school officials or an interested group of prospective students. The college sends a representative to the community to register and counsel with the students. Courses may be on the undergraduate or graduate level. They are usually conducted in a public building approved as an adequate classroom.

Summer Session

Union College has two five week summer terms; classes meet five days a week. Students whose cumulative grade average is "B" or better may register for as many as seven semester hours for each term. Students whose cumulative grade point average is lower, may take a maximum of six semester hours per summer term. Some classes will be of only three weeks duration.

The work offered in the summer is the same as that offered in the winter semesters. Students may take summer work to accelerate their program or complete college requirements. The requirements for admission are the same as the regular year.

Certificate of Advanced Study in Social Work

The program for the Certificate of Advanced Study in Social Work is designed to aid social workers in advancing their professional standing and completing the requirements for the M.S.W. degree with the least interruption in their agency responsibilities. The program consists of academic social work courses held in the evening and on Saturdays for social agency staff members.

Union College has a special compact relationship with the Kent School of Social Work at the University of Louisville. Students who have completed the one-year certificate program may then earn an M.S.W. at the Kent School in just one additional year. Students who have completed the certificate program also are eligible to enter one-year M.S.W. programs at other colleges and universities.

Applicants to the Certificate of Advanced Study program at Union must possess a baccalaureate degree from a regionally accredited senior institution

and must be employed full-time in the delivery or administration of social services. Application should be made to the Director of Admissions, Union College.

Some social agencies in Kentucky provide financial assistance for employees to cover the cost of books and tuition if courses are completed with a grade of "C" or better. Salary increases may also be available to state employees who complete the certificate program. Workers should contact their supervisors for full details.

The faculty at Union designs programs to meet the particular needs of each student, as determined by previous course work and experience. Additional information is available from the Social Work Department, Union College.

MACCI.

Union College is a member of the Mid Appalachia College Council, Inc., a consortium of twelve colleges. This consortium performs many functions, but there are two of special academic significance which provide unusual opportunities for Union College students.

1. Since 1968, a series of special honors seminars has been conducted at the Oak Ridge (Tenn.) Institute of Nuclear Studies for selected MACCI majors in biology, chemistry, and physics. These students, under the direction of the Oak Ridge Institute's professional staff, conducted experiments with specialized equipment in the realm of nuclear studies. Arrangements are planned that will provide summer employment at the Institute as research assistants for qualified students of the twelve Council colleges.
2. MACCI owns and operates a Biological Field Center on Norris Lake near LaFollette, Tennessee. Academic study at the Center is carried out during the summer terms, and correlated with courses in the biology department at Union College.

   Nearby mountains and many historic places are easily accessible for excursions and picnics. An organized recreational program on the campus, with swimming pool and tennis courts, is available to students.

Washington Semester

Under an agreement with the American University in Washington, D.C., Union College participates in the Washington Semester Program. Students selected to study under this program spend the fall semester of their junior or senior year in Washington and are enrolled at the American University. This program affords students an opportunity to continue their college education while observing the operation of government and international agencies in

the nation's capital. Detailed information on the program may be obtained from the Dean of the Faculty or the Head of the Department of History and Political Science. See financial aid section for special Robsion Political Science Scholarship.

Appalachian Semester

The Appalachian Semester, which is operated twice yearly during the fall and spring semesters, is a unique academic program in which mature second semester sophomore, junior and senior students from Union and from other higher educational institutions throughout the United States devote their full time to studying the Appalachian region — its strengths, problems and challenges. It carries a total of fifteen hours of academic credit in sociology, including six hours of field research; or twelve hours of academic credit in social work, including six hours of field practicum approved by the Council on Social Work Education, six hours of social work electives, plus three hours of credit in sociology. The program is designed to combine interdisciplinary classroom experiences and on-the-scene community experiences into a "living learning" situation where total involvement of the student may take place.

Specific courses are offered by members of the Union College faculty, opportunities are provided to discuss with local and regional leaders assets and problems of the region, and field trips are scheduled in keeping with seminar discussions in order to involve participants on the spot with current regional issues. Following an orientation period of approximately four weeks, students travel into the area and learn through supervised work experience in a service agency or through directed field research experience in the community at large.

Students in the Appalachian Semester enroll in: Sociology/Social Work 345; Sociology 495 or Social Work 391/392; Sociology/Social Work 349; and Sociology 422 (See curriculum section for course descriptions). Permission of the program's director is a prerequisite.

Career Planning and Placement Services

The college maintains a career planning and placement office for its students and graduates. A current file of career information is always available and students are encouraged to visit the office and discuss their career goals. Prospective employers are invited to the campus to interview applicants in whom they are interested. All students graduating from Union College should establish a placement file which is kept on record and forwarded to prospective employers. All placement files are confidential.

College-Level Examination Program

Union College is a regional testing center for the College-Level Examination Program (CLEP). The CLEP tests provide college credit for material students have mastered through self-study or through unaccredited classes. Up

to 30 semester hours of credit can be earned at Union College by passing the CLEP examinations; there are five general exams and 33 in specific subject areas. As an Open Testing Center, Union administers exams every Monday and Saturday in the third week of each month.

STEVENSON HALL

$100
month

Student Life

Religious Life

Union College is concerned for the religious life of its students. Worship services and other programs dealing with topics related to religion are held in the chapel. In addition, the Willson-Gross lectures and Faith and Life Week are held to give a special emphasis to Christian understanding and growth. During these weeks, outstanding speakers are brought to the campus to discuss important issues confronting the Christian in today's world.

Apart from the campus religious program, each student is expected to worship regularly in the church of his choice. The United Methodist, Baptist, Christian, and Roman Catholic Churches are represented in Barbourville. Active organizations of the United Methodist Collegiate Action Group, Baptist Student Union, Disciples Student Fellowship, Canterbury Club, and Newman Club are found in the local churches. The college endeavors to cooperate fully with these organizations and actively encourages student participation in their programs.

Social Life

Students are encouraged to accept every legitimate opportunity to engage in social functions. The faculty emphasizes the value growing out of well-directed social activities. Student organizations, the faculty and local churches make desirable contributions to the promotion of social life. The Director of Student Activities is responsible for the initiation and direction of a comprehensive program of student social and recreational activities. All social functions are chaperoned and subject to rules and regulations of the college. Chaperones are approved by the Director of Student Activities.

Concerts of exceptional merit are given throughout the school year by students in the School of Music and by the members of the music faculty, who are all performing artists.

Union College brings to the campus outstanding artists, performers, lecturers and entertainers. Their programs are planned by a General Assembly Program Committee and are given during assembly hours and evening performances.

Student Organizations

Students have the opportunity of participating in and developing leadership through a number of campus organizations. Some of these are departmental, some are limited to honor students in their fields, many are open to

all interested students. Each has a faculty sponsor and some include faculty in their membership.

Alpha Phi Omega — A service fraternity designed to promote leadership, friendship and service to the campus.

Association of Women Students (A.W.S.) — An organization to make girls dorm life better and let girls actively participate in college functions through their ideas and thoughts.

Bel Canto Sorority — A professional sorority to bring unity among the music majors and minors, to provide service to music departments and to increase the appreciation of music on campus and community.

Beta Chi Alpha — A cultural society, in the form of a sorority, which attempts to bring beauty, culture and art to the campus.

Canterbury Club — A club that meets weekly for Anglican Worship under the leadership of an Episcopal Priest.

Circle-K International — A service fraternity associated with Kiwanis.

College Republican — An organization to encourage participation in the activities of the Republican Party.

Delta Delta Upsilon — A social/service fraternity promoting unity, fellowship and service to the college community.

Gamma Beta Phi — A national honor society promoting scholarship, leadership and good citizenship at Union College.

Girls Service Sorority — A service sorority designed to assemble Union College women in the spirit of service.

Home Economics Club — Sponsored by the Department of Home Economics and open to any girl interested in the field of home economics.

Milesians — An organization to discuss mutual concerns in the field of philosophy.

Iota Sigma Nu — Honorary scholastic fraternity intended to promote high standards of scholarship.

Mu Omega Beta — A fraternity promoting fellowship, unity and service to college community.

Oxford Club — A preministeral discussion group concerned with problems that arise as a minister.

PHT'S — A club for married women who are students or wives of students.

Phi Cwens — An honor sorority for sophomore women.

Phi Epsilon Alpha — A professional organization open to physical education majors and minors.

Pi Upsilon Beta — A fraternity promoting fellowship, unity and service to college and community.

Playlikers — An organization promoting interest in the theatre.

Pom Poms — An organization to increase school spirit.

Stespean — An organization which produces the yearbook.

Student Center Board — A programming board providing social and recreational activities to supplement those planned by other campus agencies.

Student National Education Association (SNEA) — A national preprofessional organization for men and women planning to pursue teaching as a career.

Union College Science Society — An organization to stimulate interest in the natural sciences.

United Methodist Collegiate Action Group — For students interested in Christian fellowship.

General Information

Athletics

Union College is a member of the Kentucky Intercollegiate Athletic Conference and of the National Association of Intercollegiate Athletics. The college promotes athletics for physical development and as a vital part of the program of extracurricular activities. The program emphasizes the protection of the best interests of the student athlete. Union teams are noted for "clean" sport and competitive spirit. Sport for fun and character building is fundamental. In intercollegiate competition the college is represented by varsity teams in basketball, track, swimming, tennis, golf, and cross country.

Union College sponsors intramural activities in touch football, basketball, free-throwing, horseshoes, badminton, softball, tennis, volleyball, speedball, and field hockey to have a "sports for all" program. The intramural organization is in general made up of men's and women's independent teams. The program includes both team and individual sports. No college credit is given for intramurals but it is urged that everyone take part.

Publications

Union College Bulletin. — An official quarterly bulletin, one issue of which is the catalog number. This bulletin is sent free on request.

Parents' Quarterly. — A publication to inform parents of activities on campus.

Orange and Black. — A newspaper published by the student body.

Union College Alumnus. — A quarterly bulletin published by the Alumni office.

Stespean. — The yearbook, published annually by the students of the college under senior editorship.

The Library

The Abigail E. Weeks Memorial Library houses a collection of approximately 60,000 volumes. More than 350 periodicals are regularly received, along with indexing services to facilitate their use. It is also a selective depository for U.S. government publications. The stacks are open for use by all students. Regulations governing the use of library materials are available in the library and freshmen students are given instruction in the use of its facilities. At the Environmental Education Center, there is a special collection of more than 500 volumes of new books on environmental concerns. This collection provides materials for environmental courses on the main campus as well as those at

the center. Included also is a special Lincoln-Civil War collection containing 500 volumes, extensive files of clippings, and some artifacts.

Health Service

Union College retains a full-time registered nurse, and a part-time registered nurse on call at all hours, and maintains free infirmary service for brief illnesses. Since the College does not have facilities for taking care of protracted illness, arrangements for hospitalization must be made by the student or his parents. When a physician is needed, the patient may request the college nurse to call one, whose fee is to be paid by the student. In case of emergency the college reserves the right to employ a physician or to have a student hospitalized without consent of the parents.

During the calendar year, all full-time undergraduate students may secure coverage of an accident and sickness hospitalization plan which is arranged through Mutual of Omaha. All claims under this student insurance plan are placed by the student and the attending physician.

Student Conduct

Each student is expected to conduct himself at all times according to the rules of good society. This obligation includes compliance with Federal, State and local laws and adherence to college regulations. As members of a free society, students are always free to peacefully and lawfully petition for amendment or modification of the various laws as well as the college regulations. However, the rights of the student body as a whole and the college as an institution of higher education exceed the rights of any individual student or any group of students. Accordingly, not in an attempt to stifle dissent, but rather to perpetuate an environment where the student may peacefully pursue his studies, actions which are disruptive to the normal functions and operations of the college will not be tolerated. Students who are careless in conduct, wasteful of opportunity or unmindful of the rights of others, may be asked to withdraw from the college.

The college has specific regulations with regard to the use of alcoholic beverages, illegal drugs, possession of firearms on campus, and participation in any form of gambling.

Union College, as a United Methodist-related institution, supports the Church's stand on the use of alcoholic beverages. The following alcoholic beverage regulation is enforced:

No student shall possess or use alcoholic beverages when on college property or in college-approved facilities off campus, or when away from the campus representing the college in any way, e.g., a participant in or spectator at a college athletic event or other college function. Any student violating this regulation may be suspended or expelled.

The sale, possession, or use of stimulant, depressant, narcotic, hallucinogenic or other drugs or substances in violation of the Federal, State, or local laws is prohibited. Any student who illegally sells, possesses or uses such

drugs will be subject to criminal prosecution by the appropriate law enforcement agencies and also will be subject to disciplinary actions by the college. It is the announced policy of Union College to cooperate fully with the various law enforcement officials in the enforcement of the drug laws as with all other laws. A student's lawful use and possession of certain drugs pursuant to a valid prescription from a qualified medical practitioner such as a physician, dentist, or optometrist is, or course, permitted. The college Health Services should be consulted with regard to the use of stimulants which are necessarily illegal drugs since protracted use of these substances may be harmful.

Firearms of any kind are forbidden in the residence halls or on the campus. All weapons must be registered and stored by a resident fellow. Students may be expelled for failing to register firearms.

Gambling in any form is strictly forbidden.

Union College expects good housekeeping from all on-campus resident students. Persons who persist in lack of good housekeeping will be asked to withdraw from residence on the campus. The college reserves the right to enter, inspect, and search the rooms of students at any time.

Automobiles

At the time of registration for classes all students who possess automobiles must complete an automobile registration card. Students who wish to park on campus must pay a $2.00 parking fee and affix a Union College permit. Students must meet minimum insurance requirements as set forth by the Commonwealth of Kentucky.

Admission

Application for Admission — Undergraduate

Each applicant for admission to Union College must present to the Committee on Admissions satisfactory evidence of his previous academic training and good character. He should:

1. Write to the Director of Admissions, Union College, Barbourville, Kentucky 40906, for an Application for Admission form.

2. Return his application to the Director of Admissions along with a $15.00 non-refundable admission fee. A refundable $40.00 room reservation deposit may also be included. Upon receiving the Application for Admission, the Admissions Office will mail the applicant a Health Certificate and two reference forms which should be completed and returned at the earliest possible convenience.

3. Have an official transcript of all high school and previous college work mailed directly from these schools to the Office of Admissions. Only those transcripts mailed directly from the school previously attended are considered official. General Equivalency Diploma certificates will be accepted, at the discretion of the college, in lieu of a high school diploma.

4. The child of a disabled or deceased veteran, under Public Law 864, should file an application for Program of Education and Training with the Veterans Administration which will issue a Certificate of Eligibility to attend Union College.

The Committee on Admissions will act immediately upon the receipt of all credentials and deposits. Each applicant will be notified in writing promptly thereafter.

Admission Requirements

Union College admits qualified students without regard to race, creed or color.

Applicants who are accepted will be classified as freshmen, as students with advanced standing, as special students, or as graduate students, based upon previous records on file at Union College:

Sophomore — completed 24 semester hours.

Junior — completed 56 semester hours.

Senior — completed 94 semester hours with at least a "C" standing.

Special — An adult, high school work incomplete, not working toward a degree. A student, with a baccalaureate degree, registered for undergraduate credit. A person whose situation is somewhat unique and warrants special consideration.

Graduate — must possess a baccalaureate degree.

Admission to the Freshman Class — Each applicant should submit a transcript which shows that he has graduated with sixteen units from an accredited high school with at least a "C" average, ranks in the upper two-thirds of his graduating class, and has acceptable scores on SAT or ACT tests. Ten of the units earned must be in academic subjects: three units in English, two units in mathematics, two in social studies, and two in science. Foreign language is recommended. Students failing to meet these standards may be admitted if the Committee on Admissions thinks other factors warrant special consideration. The student who fails to meet these standards, but who is admitted because factors warrant special consideration, may be admitted on probation.

An applicant who has graduated from a non-accredited high school must establish his ability to pursue a college program before he can be recognized as a candidate for a degree. This may be done by completing at least twenty-four semester hours of residence study with not less than a "C" average.

An applicant, not less than 21 years of age, may be admitted on a high school equivalency certificate, based on the General Education Development tests, provided the scores earned are equal to or above the minimum recommended for college entrance by the American Council on Education.

There is open admission for all veterans and all persons twenty-one years of age and over, who have not attended another institution of higher education but who have been graduated from an accredited high school.

Freshman Orientation and Registration — Each member of the freshman class must be present at the time scheduled for Freshman Orientation. A program centered around problems peculiar to beginning students will be conducted by the faculty and a group of advanced students. The faculty of the college will be present to aid students in registering and to offer advice in choosing courses.

Admission to Advanced Standing and Transfer Students — Applicants who desire admission with advanced standing must present credits from an accredited community college, junior college, senior college, or university. The transcript of credit must show that the applicant has been honorably dismissed, that the entrance requirements of Union College have been met, and that he has a "C" average. Students failing to attain a "C" average may be considered for admission on probation providing there is evidence that he can attain a 2.0 cumulative grade point average in a reasonable length of time. All credits earned from an accredited community college, junior college, senior college or university can be transferred to Union College. Sixty-seven semester hours is the maximum amount of junior college or community college credit which may be counted toward a degree.

Advanced Placement — Students at Union College who have had superior preparation in certain curricular areas have regularly been placed in advanced course sections. In certain cases credit will be given by an examination administered by the Head of the Department. The college will also grant academic credit to those incoming freshmen who have successfully participated in the Advanced Placement Program of the College Entrance Examination Board. Interested students should consult the publication "Advanced

Placement Program" of the College Board Advanced Placement Examinations, Box 592, Princeton, N.J., and their High School Guidance Counselors. Students may also earn college credit through the College-Level Examination Program (see Special Programs section). Further information on the program may be obtained from the Registrar or the Dean of the Faculty.

High School Junior Program — Superior high school students, recommended by their Principals, are permitted to take certain college freshman courses in the summer sessions between their junior and senior years in high school and between their graduation and the opening of the regular fall semester. Credit earned in these courses will be recorded after the student has been regularly admitted to college following his graduation from high school and after he has completed twenty-four semester hours at Union with a "C" average.

Veterans Affairs — Credit for educational experiences in the Armed Forces is granted, based on recommendations of the American Council of Education. A maximum of 60 semester hours will be granted, on a combined basis, from the College Level Examination Program (CLEP) tests, USAFI approved courses, correspondence and extension courses. Union College will accept up to nine semester hours of credit from Service Schools, and grant three semester hours of Health and Physical Education credit for military service.

War Orphans Education, P.L. 634 — Application should be made at the nearest Veterans Administration Office, prior to registration for college.

Admission to the Graduate Program — The applicant must file an application for admission with the Dean of the Graduate School, Union College, Barbourville. Two official transcripts of all college work are required and must accompany the application. There is a $15.00 admission fee, which is refunded only when admission is denied.

Admission as Auditors — Students may audit some classes, with the permission of the instructor. They must register as if for credit. Students new to Union College pay the regular $15.00 admission. There is also an audit fee.

Physical Examination — Union College attempts to give aid to all students in matters of health. A thorough examination by a regular physician is required as a part of the entrance procedure of each student.

Physical Examination report forms may be obtained from the Office of Admissions or from the college nurse, and the examination should be made by the applicant's family physician. If a completely filled out medical examination report is not filed at registration, the student is required to have the examination made by a local physician, at his own expense, before registration is completed.

Room and Board — If a campus dormitory room is desired, application must be made with reservation deposit of $40.00. This deposit should be filed with the application for admission. No room reserved for a student will be held unoccupied beyond the first day of registration unless there is a definite explanation and a request to occupy at a stated later date.

The $40 room deposit is refundable up to one year after the last date the student is enrolled at Union College. Should a student pay room deposit, and

decide not to enroll at Union College, he will be eligible for a refund up to one year from the date his deposit was received. After the refund period expires, the student forfeits his deposit to the college. A student must submit a written request to the Office of Student Affairs for the refund. Refund of room deposit is conditional upon the depositor leaving the dormitory rooms and equipment undamaged. All readmission students are assigned housing according to their new date of admittance. The readmission acceptance date becomes their room deposit date.

Room keys that are not turned in to the Office of Student Affairs at the end of the term or school year will be charged to breakage at the rate of $1.00 a key. The same rate will be charged to any student for whom it is necessary to replace keys.

Linen and towels will be provided each student living in the college dormitories. The college does not provide blankets, rugs, or curtains. Students should bring study lamps or may purchase them through the college bookstore. Light bulbs for these should not be in excess of 75 watts.

All students who room on the campus are required to board in the college dining hall unless they have permission to do otherwise, from the Dean of Students.

Off Campus — All students 21 years or older, juniors and seniors (according to the Registrar's Office), veterans, and married students, can live off campus if they so desire. Juniors and seniors under 21 must have parental permission.

Liability — Union College will not be responsible for loss of personal property or bodily injury resulting from fire or other causes.

College Expenses

The academic year of nine months is divided into two semesters. The rates quoted below are for one semester. The cost of a regular session of nine months can be found by multiplying a semester's expenses by two. All checks should be made payable to Union College.

Undergraduate Expenses:

Tuition (10 to 17 semester hours)*	$ 815.00
Room	145.00
Private Room	210.00
Board (19-meal week)	277.00
Total for Boarding Student*	1237.00
Total for Non-Boarding Student**	815.00
Part-time tuition for all registration under ten or above seventeen semester hours, per semester hour	30.00

Graduate Expenses:

Graduate Tuition, per semester hour	37.50
Activity ID card (required for boarding graduate students)	10.00

Summer Session Expenses:

Tuition, Undergraduate, per semester hour	30.00
Graduate, per semester hour	37.50
Room, each 5-week term	40.00
Private Room, each 5-week term	60.00
Board — full week, each 5-week term (21-meal week)	85.00
— short week (Monday breakfast through Friday lunch) each term (14-meal week)	65.00

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*Vacation periods are not included in the quotation. Dormitories are closed during intermissions and Christmas holidays. The college reserves the right to entertain delegates to conventions and other related groups in the residence halls during vacation periods. Students will be notified in advance of such contemplated occasions and assurance given regarding the safe-guarding of their personal property during such occupancy. Due to uncertainties in the price of food the College charges for Board may, if necessary, be changed at any time without notice.

**$10.00 of this amount each semester, is designated for Student Center construction, as voted by students December 10, 1962. $1.00 is collected for Student Senate dues, $1.00 for class dues, and $1.50 for the I.D. card.

The charges for individual meals in the Dining Hall are as follows: Breakfast, $ .90; Lunch, $1.10; Dinner, $1.25; Sunday noon, $1.50.

Other Expenses

Admission fee: Undergraduate	$ 15.00
Graduate	15.00
Audit fee, per semester hour	10.00
Change in schedule fee	2.00
College Court Rental, per month (all utilities furnished)	65.00
Examination: late examination fee	1.00
late final examination fee	5.00
credit by examination, (per course)	25.00
Graduate Activity Fee (required for boarding graduate students)	10.00
Graduation fee for Bachelor's degree	25.00
Graduation fee for Master's degree	30.00
Graduation in absentia fee	10.00
Late registration fee	10.00
Music: Preparatory Department: Piano, Strings, Wind Instruments	
one half-hour lesson, weekly, per semester	50.00
one-hour lesson, weekly, per semester	75.00
Music lessons: part-time and special students, per semester	30.00
Transcript — after first copy (one week's notice required)	1.00

Terms of Payment

Full semester's charges, room, board, tuition, and fees, must be paid no later than registration date. Should the student have an approved loan, scholarship, workship, workstudy grant, or other form of financial assistance, such amount will be deducted from the total charges with the then net amount payable at the time of registration. The Office of Business Affairs can make no exception to this regulation. The college also reserves the right to hold a student's transcript or other academic records until all financial obligations to the school have been satisfied.

Refund Information

Since faculty engagements and other commitments are made by the college for the entire year in advance, the following refund schedule has been established in order that the college and the student may share the loss equitably when it is necessary for a student to withdraw or to make a change in his program.

1. There will be no refund given for room rent unless the decision to withdraw is made by day of registration. This rule applies to all withdrawals including students dismissed from college.
2. Board will be refunded in full amount unused to the date of with-

drawal. A full week is charged for any fraction of a week.

3. Tuition will be refunded on the following basis:

   REGULAR TERM — Twenty percent of the total for tuition will be charged for each of the first five weeks. No refunds will be made on tuition after the fifth week. Any part of a week will be treated as a full week. Refund is based on tuition charges, less $10 student center allocation, $1 class dues, and $1 student senate fee.

   SUMMER TERM — Fifty percent of total tuition will be charged the first week and fifty percent the second week. No refunds following the second week. Any part of a week will be treated as a full week.

4. Any registrant who has completed registration and who has failed to attend a single class may have his account credited for the money paid, this to apply for use on future registration within a twelve-month period.

5. *Room Reservation Deposits* — This deposit will be refunded if request is made in writing not later than August 1 for the Fall Semester or thirty days before the opening of any other semester for which the contract is first effective. Students, once enrolled, must submit a written request with the Office of Student Affairs at least 30 days before the end of the term for cancellation of the contract. Graduating seniors must file their request for room deposit refunds before they leave the campus. If the above guidelines are not followed, the deposit will be forfeited by the student.

6. Caution deposit will be refunded upon receipt of written authorization by the Dean of Students or Dean or Women indicating the depositor is no longer enrolled as a student at Union College and that he has left dormitory rooms and equipment undamaged.

7. No fees are returnable, including $15 admissions fee.

   A student is considered to be enrolled until he formally notifies the Office of the Registrar of his withdrawal and all refunds will be based on the date of notification.

Financial Assistance

Standards for Receiving Financial Aid

Union College maintains an extensive program providing opportunities for financial assistance to promising students who need help in meeting their expenses, or who have attained particular merit in scholarship or other accomplishments. Only those students whose scholarship and character indicate leadership ability and promise of future usefulness will be approved for aid.

Students receiving financial assistance may be deprived of their aid at any time if they are negligent in the performance of their duties, careless in their conduct, or unwilling to cooperate fully with the policy of the college.

As a general policy no student will be eligible for more than one scholarship, nor will any student be eligible for aid from a combination of scholarship, workship, and loan-grant sources in excess of the full amount of his tuition, room and board. Scholarships and/or grants in aid will not be applied to student accounts until the close of the current semester for which the student is enrolled. Therefore should a student who is the recipient of a scholarship withdraw prior to the close of the semester, he forfeits the right to all scholarship benefits.

Union College participates in the College Scholarship Service (CSS) of the College Entrance Examination Board. Participants in CSS subscribe to the principle that the amount of financial aid granted a student should be based upon financial need. The CSS assists colleges and universities and other agencies in determining the student's need for financial assistance. Entering students seeking financial assistance are required to submit a copy of the Parents' Confidential Statement (PCS) form to the College Scholarship Service, designating Union College of Kentucky, College Code 1825, as one of the recipients by May 15. The PCS form may be obtained from a secondary school or the College Scholarship Service, P.O. Box 176, Princeton, New Jersey 08540; P.O. Box 1025, Berkeley, California 94704; or P.O. Box 881, Evanston, Illinois 60204.

Applying for Financial Aid

Inquiries regarding scholarships, loans, and financial aid should be addressed to the Office of Financial Aid, Union College Barbourville, Kentucky 40906.

1. No student may be approved for financial aid until official admission to Union College has been granted.
2. An application for financial aid must be submitted to the Office of Financial Aid. This form may be obtained by writing the Director of Admissions. This form must be completed and submitted by April 15 preceding the fall term.
3. Parents or guardians of applicants must complete the Parents' Confi-

dential Statement of the College Scholarship Service, Box 176, Princeton, New Jersey 08540, and return it, following the printed instructions on the form, to Princeton, Evanston, or Berkeley, depending on your place of residence. Blank forms are available in most high school guidance offices or from the College Scholarship Service.

4. Students making application for a scholarship or other financial aid shall submit a transcript to the Office of Student Affairs, as well as to the Registrar.

Scholarships

UNION COLLEGE HONOR SCHOLARSHIPS. — Honor Scholarships in an amount up to $700.00 for the academic year are available to select graduates of accredited high schools enrolling in college for the first time. To qualify, students must rank in the top 3% of their graduating class. Evidence of high school rank must accompany the application for financial aid certified by the high school attended. All test scores should also accompany the application for financial assistance.

Honor Scholarship renewals will be based upon a scale of cumulative grade point averages as follows:

Cumulative Grade Point Average	*Amount of Award*
3.0 . . . 3.49	$500.00
3.5 . . . 4.00	$700.00

Alumni Scholarships. — The Alumni Association of Union College awards two scholarships annually on the basis of character, need, and evidence of future usefulness. The first scholarship is for $400, and the second for $300. Recipients are selected by the Alumni Scholarship Committee.

Appalachian Regional Scholarship. — Two friends of Union College have established the Appalachian Regional Scholarship to be awarded to an Appalachian student on the basis of financial need and promise of future usefulness to the region. The stipend is $150 per semester.

Bank of Harlan Scholarships. — A number of scholarships are given annually to qualified students from Harlan County by the Bank of Harlan. The stipends are determined according to financial need and academic excellence.

Barbourville Kiwanis Scholarship. — The Kiwanis Club of Barbourville, Kentucky, has supplemented an educational fund originated by Mr. C. F. Heidrick and established a scholarship fund at Union College for promising students from Knox County, Kentucky.

Barbourville United Methodist Church Music Scholarships. — Annually The First United Methodist Church of Barbourville, Kentucky, awards four scholarships to music students amounting to $200 for a total of $800. Consideration is given for participation in the music program of the local church.

Henry C. Black Memorial Scholarship. — Given as a memorial to Mr. Henry C. Black, a graduate of Union College, to a freshman student graduating from a high school in Kentucky or Tennessee. The scholarship stipend is $250

and is awarded on the basis of need, scholarship, character, and promise of future usefulness.

John A. and Hannah P. Black Memorial Scholarships for Christian Workers. — The late Dr. and Mrs. Henry C. Black of Johnson City, Tennessee, endowed a scholarship that provides an annual stipend of $500 for a promising student who plans a life of service in The United Methodist Church.

Dr. and Mrs. James F. Blair Scholarship. — Dr. and Mrs. James F. Blair of Barbourville, Kentucky, have endowed a $250 scholarship for students from Knox County, Kentucky. It is awarded annually to a student in the sophomore, junior or senior year on the basis of need, scholarship, character, and promise of future usefulness.

Kathy Brick Memorial Scholarship. — Mr. and Mrs. Theodore F. Brick of Dayton, Ohio, provide annually a scholarship of $100 for a student who participates in the competitive swimming program of the College.

The Eulalia Serrano Cabrero Memorial Scholarship. — Mr. Andres Cabrero, Hato Rey, Puerto Rico, has established a scholarship in memory of his late wife, Eulalia Serrano Cabrero, a 1964 graduate of Union College. The scholarship provides $300 per year, and is made avaible to a needy student of minority background interested in social work, preferably a Methodist.

W. S. and Bess Carpenter Scholarship. — Mr. and Mrs. W. S. Carpenter of London, Kentucky, provide annually a scholarship for a worthy freshman, preferably from southeastern Kentucky. The stipend varies with need, but is in the $500-$700 range.

Alfred I. DuPont Scholarship Fund. — The late Mrs. Alfred I. DuPont of Wilmington, Delaware, established a scholarship endowment, the income from which is used annually to provide one or more scholarships to needy students having high academic potential. Preference in the awarding of these scholarships is given to students from the Appalachian counties of Kentucky and surrounding mid-Appalachian region in adjoining states.

Dr. J. Edward Faulkner Memorial Scholarship. — Mrs. J. Edward Faulkner of Barbourville, Kentucky, provides an annual scholarship in memory of her late husband. The scholarship is awarded to a junior or senior who plans a life of service in the healing arts, with preference being given to a predental student.

Ernest Goodwin Green Memorial Scholarship. — Mrs. Ernest Green, Grand Rapids, Michigan, has established a memorial scholarship to be awarded annually to a drama major considered to be the most capable of contributing toward the success of the department. The scholarship is given in memory of her late husband.

John O. and Harriet B. Gross Memorial Scholarship. — Family and friends of Dr. and Mrs. John Owen Gross have endowed a scholarship in their memory. Dr. Gross was president of Union College during the years 1929-1938. The scholarship is awarded annually to a senior student on the basis of scholarship and leadership, with preference being given to students from northern Kentucky. The stipend and requirements are the same as for "United Methodist Scholarships."

Hubbuch in Kentucky Scholarship. — Hubbuch in Kentucky provides an annual scholarship of $400 for a student from Louisville or Jefferson County, Kentucky, who otherwise would be financially unable to attend college. It is awarded annually to a freshman on the basis of financial need, scholarship, character and promise of future usefulness, with special emphasis on students who plan to enter private business activities in Louisville or Jefferson County.

Irene Hughes Scholarship. — Miss Irene Hughes (AB '37; MA '63), Barbourville, Kentucky, provides an annual scholarship of $200 for a freshman girl, a graduate of Knox Central High School, who has been a member of the High School Honors English Class and who exemplifies Christian principles of conduct. The scholarship will be awarded by the Alumni Scholarship Committee.

Rural Electric Scholarship. — The Inter-County Rural Electric Cooperative of Danville, Ky., has established a $100 annual scholarship to assist a Union College student whose parents are members of Inter-County RECC in the counties they serve. This scholarship is awarded on the basis of financial need, character and academic promise. Preference will be given to freshmen.

Professor and Mrs. Millard L. Jordan Scholarship. — Professor and Mrs. Millard L. Jordan of Lakewood, Ohio, have established a scholarship fund at Union College to aid worthy Appalachian students. The income from the fund will be awarded as a scholarship to a student each year on the basis of need, scholarship, character and promise of future usefulness.

Junior College Scholarship. — Union College has a limited number of scholarships available to needy graduates of Junior or Community Colleges. The scholarships carry a stipend up to $500 per year depending upon need. To be eligible for this scholarship, the applicant must be a graduate of a Junior or Community College having earned the A.A. Degree with a cumulative grade point average of at least 2.5 on a 4 point system. These scholarship are renewable in the senior year providing the student maintains an average of 2.5 or better at Union College.

Junior Study Club Scholarship. — The Junior Study Club of Barbourville, Kentucky, provides a $200 scholarship at Union College to aid worthy students from Knox County, Kentucky. The scholarship is awarded to a girl who graduated from a high school in Knox County who is a Junior or Senior at Union College. The scholarship recipients are chosen on the basis of need, scholarship, character and promise of future usefulness.

Jeffrey W. Kronk Memorial Scholarship. — Mr. and Mrs. Walter F. Kronk of Huntsburg, Ohio, have endowed a scholarship for a needy, qualified student from Geauga, Lake, or Ashtabula counties in Ohio, or from the Appalachian counties of Southeastern Kentucky. The scholarship is in memory of their son, Jeffrey, who was enrolled at Union College from 1963 through 1967. Should there be no qualified students enrolled from these areas in any given year, the endowment income will be used to support the Lincoln-Civil War Collection at Union College.

W. B. Landrum Memorial Scholarship. — Mr. John W. Landrum of Harrodsburg, Kentucky, provides annually a scholarship of $250 for a promising United Methodist ministerial student in memory of his father. The student benefited by this scholarship must exhibit outstanding personal attitudes of

religious sincerity, devotion, and earnestness in purpose. Demonstrated failure to exhibit these qualifications to a high degree will result in the forfeiture of the scholarship.

London Laundry Scholarship. — The London Laundry & Dry Cleaners, London, Kentucky, has established an annual $250 scholarship to assist a student graduating from a high school in Southeastern Kentucky during his freshman year at Union College. The scholarship is awarded on the basis of scholarship, character, and promise of future usefulness.

National United Methodist Scholarships. — The Board of Education of the United Methodist Church makes available annually to several United Methodist students scholarships covering tuition and fees. The awards are made on the basis of character, need and scholastic ability. Only students having at least a "B" average are eligible.

Presser Foundation Music Scholarship. — Union College receives each year from the Presser Foundation, Philadelphia, Pennsylvania, a grant of $400 to be given by the College as a Music scholarship. Recipients of this scholarship are selected by the President of the College and the Head of the Music Department. The recipient must be majoring in music and preference will be given to students preparing to become teachers of music.

E. O. Robinson Mountain Fund Scholarship. — The E. O. Robinson Mountain Fund has established an annual scholarship program to assist needy students who reside in the Appalachian Region of Eastern Kentucky. Students receiving these scholarships should give promise of being able to complete their academic work successfully. *They should be and remain unmarried while receiving assistance from this scholarship.* Qualified persons should apply to the Office of Financial Aid.

Robsion Political Science Scholarship. — Honoring Senator John M. Robsion, Sr., and Congressman John M. Robsion, Jr., the Robsion Political Science Scholarship provides a stipend of $750 for the Union College student participating in the Washington Semester Program each year.

Sanders Honor Scholarships. — Colonel Harland Sanders of Shelbyville, Ky., provides annually a number of honor scholarships with the same stipend and on the same terms as the Union College honor scholarships. The Sanders Honor Scholarships are limited to students who do not use tobacco and alcoholic beverages.

Sims Scholarship Fund. — Reverend and Mrs. Harry C. Sims of West View, Kentucky, have established a scholarship fund at Union College to aid worthy students preparing for the United Methodist ministry. The income from the fund will be awarded as a scholarship to a student each year on the basis of need, scholarship, character and promise of future usefulness.

Cawood Smith Harlan County Scholarship. — Mr. Cawood Smith, Harlan County attorney, has established a $5,000 endowment for a scholarship to be awarded to the son or daughter of a miner from Harlan County, Kentucky. The recipient shall be a resident of Harlan County and selected upon the basis of need, scholarship, and promise of future usefulness to the coal region. The stipend shall be $250.

Hulbert Taft, Jr., Memorial Scholarship. — Mrs. Thomas C. Haydock, Sr., of Cincinnati, Ohio, has provided a scholarship endowment as a memorial to her late husband, Hulbert Taft, Jr. The income from the endowment will be used annually to provide one or more honor scholarships to needy students having high academic potential.

Union National Bank Scholarship. — The Union National Bank of Barbourville, Kentucky, has established a half-tuition scholarship of $815 at Union College to aid worthy students from Knox County, Kentucky. It is awarded to a student graduating from a high school in Knox County, for the freshman year at Union College, on the basis of need, scholarship, character, and promise of future usefulness.

Harry C. Viall Memorial Scholarship. — Mrs. Harry C. Viall of Barbourville, Kentucky, has endowed a memorial scholarship for a needy, qualified student with preference going to an individual from Knox County. The annual scholarship is given in memory of her late husband, Harry, who was a prominent local businessman.

O. H. Viall Memorial Scholarships. — The late Mrs. O. H. Viall and family of Barbourville, Kentucky, have established a memorial scholarship fund at Union College to aid worthy students. The number and size of the scholarships vary being intended for emergency use by needy students.

William M. Wilson Memorial Scholarship — Mrs. Eva Oldfield Wilson of Barbourville, Kentucky, has established a scholarship fund in memory of her late husband. The income from the fund will be used to provide an annual stipend of $200 for a promising student preparing to teach in the elementary or secondary schools.

Andrew G. Yankey Scholarship Fund. — This is a $500 annual scholarship for a Bell County student with the first preference being a Henderson Settlement School graduate. Qualifications will include need, character, and academic promise. The providers of this fund are particularly interested in students who, upon graduation, plan to labor in the hills of Kentucky. This fund is established by the Rev. Dr. Glenn Tex Evans, former administrator of the Henderson Settlement School, in honor of Mr. Andrew G. Yankey, a native Kentuckian, and is meant to be a symbol of Mr. Yankey's affection for and interest in the youth of Kentucky.

Dr. Henry M. Zimmerman Scholarship. — Dr. Henry M. Zimmerman of Pompano Beach, Florida, has established a scholarship endowment, the income from which is used annually to provide a scholarship for needy students of exemplary character who show promise of being able to contribute to the well-being of their country and their fellowman.

Other Scholarships — Other scholarships are often available for students of exceptional academic ability and/or great financial need. Inquiries should be addressed to the Office of Financial Aid.

Assistantships

Several Senior Assistantships are made available annually in the academic divisions. The assistantships are open to students of outstanding scholastic

ability who exhibit great promise of future usefulness and who are considering graduate studies with a view of entering college teaching. The duties of the Senior Assistants include occasional classroom lectures, research, remedial work with beginning students, assisting in laboratories, etc. The Assistants are expected to spend a minimum of twelve hours per week on the work assigned. The awards are made by the Scholarship Committee upon recommendation from the Division Chairmen. Senior Assistants receive a stipend of $600 per year.

Resident Grants

A Resident Grant program provides a student's room for an academic year. Grants are given on a basis of academic achievement, participation in campus activities and need. A separate application must be filed, and these may be obtained from the Office of Financial Aid.

Workships

The college seeks to employ as many students as possible in jobs on the campus. Such jobs consist of stenographic work in college offices, science laboratory assistance, service in the dining room and kitchen, in the library, student center, gymnasium, and on the campus grounds. Each workship student is under the supervision of a faculty member or other college employee who makes a monthly time report to the Office of Student Affairs where credit on an hourly basis is entered on the student's account. Students are paid the minimum wage. The Office of Financial Aid can withdraw the workship at any time if student performance or attitude is unsatisfactory.

Work-Study Program

Undergraduate students who need financial assistance to attend college may apply for employment under the College Work-Study Program at Union College. Preference is given to students who have the greatest need after the application of all public and private grants. Students who work part-time while attending school and full-time during vacation periods may earn a large portion of the amount needed for college expenses. The federal minimum wage is paid to all enrollees.

Graduate students who have need and qualify may be considered for the College Work-Study Program. Those assigned will receive more than the federal minimum wage.

Supplemental Educational Opportunity Grants

The Educational Opportunity Grant Program provides grants of from $200 to $1,000 to students of exceptional financial need who are in academic good standing at Union College. This program, financed by the government, is an "opportunity" program and not a "scholarship" program, and therefore students are eligible if allowed to remain in the institution, if academic promise

continues, if it is reasonable to expect graduation, if Federal funds continue to be available, and if financial need remains. Those interested may receive applications and further information through the Office of Financial Aid.

Basic Educational Opportunity Grants

The Basic Educational Opportunity Grant Program provides grants to students who will be freshmen and sophomores in the academic year of 1974-75. The Federal government decides the amount of the stipend. Students who attend Union College usually qualify for approximately $450.00. Applications are available in the Office of Financial Aid or at your local Post Office.

Loan-Grants

Ministerial Loan-Grant. — Ministerial loan-grants amounting to $400 for the academic year are available to students studying for the ministry. To be eligible for this aid the student must have a license to preach, or enroll in the non-credit religion course, Conference Studies, which is designed to prepare candidates for the obtaining of the license to preach. Renewal of the loan-grant is dependent on the student's successfully passing this course and obtaining the license to preach before the beginning of the next academic year. Applicants qualified for the loan-grant must sign a note for the amount received each semester. These notes will be cancelled after the individual has entered into the full-time ministry. If the student changes his plans and enters another field of endeavor the notes become due and payable.

Loan-grants amounting to $700 for the academic year are available to United Methodist Local Preachers who agree to serve four years in the Kentucky or Louisville Annual Conference. These notes will be cancelled after the specified service has been fulfilled. Apply to the Director of Religious Life.

Aid to Children of Ministers. — Special consideration for various kinds of financial aid is given to unmarried dependent children of United Methodist Ministers. The total amount of assistance will be based on financial need. Applications should be submitted to the Office of Financial Aid and additional information may be secured from this office.

College Employee Grants. — The spouse and unmarried dependent children of full-time employees of Union College may receive a full tuition grant at Union College. A tuition grant at other colleges participating in the Tuition Exchange Program is available to employees' unmarried dependent children.

Loans

United Methodist Men's Loan Fund. — The United Methodist Men's Clubs of the Kentucky and Louisville Conferences of the United Methodist Church provide loans to deserving men and women students of Union College. Applications are received by the Office of Student Affairs. New freshmen must have a "B" average in high school. Loans may be received up to $400 per year.

United Methodist Student Loan Fund. — The Board of Education of The United Methodist Church makes available to worthy students at Union College the resources of The United Methodist Student Loan Fund. Apply to the Office of Financial Aid at Union College.

National Direct Student Fund. — Union College is participating fully in the student loan-program as established by the 85th Congress in the National Defense Education Act of 1958. Only students with above average records and real financial need should apply for these loans. Special consideration in the selection of loan recipients will be given to students with superior academic background who express a desire to teach in elementary or secondary schools, and to those whose academic background indicates a superior capacity or preparation in science, mathematics, or a modern foreign language. Detailed information may be obtained by writing to the Office of Financial Aid, Union College.

United Student Aid Fund. — Students with above average academic records and a financial need may obtain a United Student Aid Fund loan up to $500 per semester. Further information may be secured from the Director of Student Aid.

Elizabeth L. Gates Loan Fund. — Mrs. Waldo Brown of Knoxville, Tennessee, has established a loan fund in memory of the mother of Mr. John B. Gates, a former student at Union College. The resources of the fund are available to senior male students preparing for the ministry.

Burton and Verda Hensley Student Loan Fund. — Mr. and Mrs. Burton F. Hensley have established a loan fund to aid students at Union College. The resources of the fund are available to worthy and needy students.

Rev. and Mrs. Erwin King Loan Fund. — Rev. and Mrs. Erwin King have established a loan fund to aid worthy ministerial students in their junior or senior years at Union College. To qualify for a loan, the students must possess high qualities of character and scholarship.

Guy H. Williams Loan Fund. — Dr. Guy H. Williams of Cleveland, Ohio, has established a loan fund in memory of his wife, Anna Williams. The resources of the fund are available to worthy students who have spent two years at Union College and have a "C" average or better.

Book Loan Fund. — The Senior Class of 1957 established a loan fund with the hope that future classes would add to its capitalization. The resources of the fund are available to full-time students on a short-term loan basis for the purchase of required textbooks.

Knox County Chamber of Commerce Student Loan Fund. — Mr. William S. Murphy, former director of development at Union College and first vice president of the Knox County Chamber of Commerce, provided the initial gift to establish this fund. The continued support of the fund was accepted by the Knox County Chamber of Commerce as an expression of appreciation for the contribution of Union College to the educational, economic, social, and religious life of Knox County and vicinity. The Knox County Chamber of Commerce attempts to make annual contributions to this fund, and encourages local citizens to do likewise.

The Charles Henry and Glennora Rominger Krieger Student Loan Fund. — This loan fund, established by the late Glennora R. Krieger of Ft. Thomas, Kentucky, provides loans to worthy and needy students at Union College from the designated Appalachian counties of eastern Kentucky. The terms of the loans are the same as those of The United Methodist Student Loan Fund.

Pickett and Hatcher Educational Fund. — Loans in an amount up to $1,200 per academic year are available to students for the payment of tuition, room and board. The maximum amount available is $4,800 for undergraduate study. Applicants must apply directly to the agency. Further particulars are available from the Office of Financial Aid.

Other Loan Funds. — Student loans are available from a number of funds not specifically designated for Union College students, but for which Union College students are eligible. Specific information may be obtained from the Office of Financial Aid.

Endowments

The Russell M. Bennett Memorial Professor of Sociology Chair. — This chair was given to Union College by Mrs. Helen Hunt Bennett in the amount of $75,000 for the endowment of this professorship in 1946. An additional $2,000 was given for the equipment of the Business Department.

Dr. Robert E. Drew Endowment Fund. — The Commission of Missions of the Hyde Park Community United Methodist Church, Cincinnati, has established an endowment fund in honor of the Rev. Dr. Robert E. Drew, former associate pastor of the church and an honorary alumnus of Union College. The income from this fund will be used for scholarship grants to foreign students.

Dr. Franklin Duncombe Memorial Fund. — Mrs. Helen Duncombe of Haverford, Pa., has established an endowment fund in memory of her late husband, an honorary alumnus of Union College. Income from this fund will be used to finance grants-in-aid under the college loan-grant program for students planning to enter the United Methodist ministry.

Anna E. and John William Harris Memorial Fund. — Dr. J. William Harris has established a lectureship fund containing the sum of $30,000 in memory of his sister, Anna E. Harris, and his father, John William Harris.

Charles and Leona Jennings Memorial Funds. — Dr. Charles M. Jennings of Marietta, Georgia, has established an endowment fund in memory of his parents, Charles and Leona Jennings, the income from which is to be used to provide an annual bonus to the head of the Department of Biology at Union College.

William Jones Endowment Fund. — Mr. William Jones of Barbourville, Kentucky, has established a fund, which may be augmented from time to time, the income from which is designated for use by the School of Music to purchase recordings and musical scores.

Jeffrey Kronk Memorial Endowment. — This endowment, established by the Senior Class of 1967, in memory of Jeffrey Kronk, a member of that class,

will assist in purchasing books for Union College's Lincoln-Civil War Collection.

Francis Landrum Memorial Professor of Religion and Philosophy. — Mrs. Obed H. Wilson has established the Francis Landrum memorial professorship through a bequest of $50,000 in 1927.

Dorothy Lucas Memorial Fund. — An endowment fund has been established in memory of Miss Dorothy Lucas, registrar of Union College for many years, and much beloved friend of students. The income from the fund is used to support various student-aid activities of the college.

Melanie Jean Martin Trust Fund. — Dr. and Mr. O. J. Wilson of Bowling Green, Kentucky, have established a memorial fund in memory of their granddaughter. The income from the fund is used to purchase library books to support the work of the English Department.

John and Minnie B. McGaffee Trust Fund. — Dr. and Mrs. O. J. Wilson of Bowling Green, Kentucky, have established the John and Minnie B. McGaffee Trust Fund for the purpose of providing financial assistance to worthy and needy preministerial students. The income may be used for grants or loans, with preference being given to students from the Appalachian Region of Kentucky.

Pearl Sinnett Meyer Memorial Fund. — The Rev. Dr. Jesse I. Meyer of Pikeville, Kentucky, has established an endowment fund in memory of his wife, Mrs. Pearl Sinnett Meyer. The income from this fund is designated for the purchase of books for the Union College library.

Emory Evan Peter Memorial Endowment. — The late Mrs. Laura P. Dickey of Louisville, Kentucky, established an endowment fund in memory of her brother, Emory Evan Peter. The income from this fund will be used to help finance the college student aid program.

Lewis Ogden Stiles Endowment Fund. — The late Mrs. Lewis Ogden Stiles of Waco, Texas, established this fund to memorialize her husband, Lewis Ogden Stiles, and his first wife, Pearl Long Stiles, both faithful United Methodists of Irvington, Kentucky. The income from this fund will be used to finance grants-in-aid under the college loan-grant program to United Methodist students planning to enter the ministry of the Kentucky or Louisville annual conferences.

Willson-Gross Lectures. — The late Dr. and Mrs. James Willson of Floydada, Texas, established a lectureship endowment in memory of Dr. and Mrs. John Owen Gross. The purpose of the lectures is to bring annually to the campus distinguished speakers to discuss vital issues confronting the Christian student.

Beverly P. and Mossie B. Wilson Trust Fund. — Dr. and Mrs. O. J. Wilson of Bowling Green, Kentucky, have established a memorial fund in memory of Dr. Wilson's mother and father. The first $100 income from the fund shall be used to support the annual "Beverly P. and Mossie B. Wilson Memorial Award in English." Income in excess of $100 shall be used for a revolving loan fund for students majoring in English.

Colutha J. Taylor Wright Memorial Fund. — Mr. J. S. Wright of Whitley City, Kentucky, has established an endowment fund in memory of his wife, Mrs. Colutha J. Taylor Wright. The initial sum was $1,000.

Awards

Alpha Psi Omega Award (National Dramatics Honor Fraternity); an Oscar to the male and an Oscar to the female who has contributed most toward drama at Union College, as selected by members of the Fraternity.

Art Club to the art student judged most outstanding during the year.

The Bartlett Sociology Award in memory of Mrs. Ellen Savina Bartlett of Iowa Falls, Iowa, to the student showing the greatest excellence in the field of sociology.

Senior Biology Award, by Dr. Theodore R. Davies, to the senior student showing the highest academic excellence in the field of biology.

Blackwell Memorial Award in Political Science, by the late Dr. Robert Lee Blackwell in memory of his mother, Mrs. Victoria Wolfe Blackwell, to the senior student majoring in history and/or political science showing the highest academic excellence in the field of political science.

Kathy Brick Memorial Award, by her parents, Mr. and Mrs. Theodore F. Brick, Dayton, Ohio, to the student showing the highest proficiency in competitive swimming.

The Burke Mathematics Award, in memory of Dr. A. R. Burke, of Binghamton, New York, to the student showing the greatest excellence in the field of mathematics, by Mrs. A. R. Burke.

The Chemistry Department Awards, in General Chemistry, Analytical Chemistry, Organic Chemistry, and Physical Chemistry. The award is given to the student who has completed the year course with the best all around average. Awards are furnished by the Chemistry Department faculty.

The Daniel Drinkard Memorial Award, by students of Union College and friends, through the Alumni Association of Union College, to the runner-up for the Athlete of the year, the athlete who exemplifies the characteristics of desire, kindness, honesty, and personal integrity, as embodied in his personality and attitude. The award shall be presented each year at the Athletic Banquet and shall be in the form of a plaque kept in the trophy case in the Physical Education Building; a miniature plaque shall be given to the recipient of the award.

Eastern Kentucky Essay Award, by Dr. Kenneth H. Tuggle, trustee of Union College, to the student writing the best essay on Eastern Kentucky history.

French Award, a book, to the graduating senior majoring in French with the highest cumulative standing in the field.

Freshman Composition Award, by Dr. and Mrs. Bjornstad, formerly of the faculty of Union College, to the student achieving highest writing excellence in freshman composition courses as determined by the English Department.

Gamma Beta Phi Award, a book, to the full-time student with the highest cumulative average in hours earned at Union College. In case of a tie, the award will go to the student with the greatest number of hours.

Dr. L. A. Geiss Award to the graduating senior majoring in business with the highest cumulative standing in that field.

Mrs. L. A. Geiss Award, to the student majoring in the Department of Home Economics achieving the highest academic standing in that field for the year.

German Award, a book, given by Mrs. W. J. Marigold or Toronto, Canada, in memory of the late W. J. Marigold, to the graduating senior majoring in German with the highest cumulative standing in that field.

Governor James D. Black Award, by the late Pitzer D. Black, to the senior student with the highest scholastic average for the year.

Hubert H. Hoeltje Memorial Award, a copy of a book by the late Hubert H. Hoeltje (Professor of American Literature at Union, 1961-1968) to the undergraduate student who, in the judgment of the Head of the Department of English, has done the most perceptive work, in class and in written reports, in that field during the current academic year.

Iota Sigma Nu Awards, to the freshman and the sophomore students with the highest scholastic average in their respective classes for the year.

The Laws and Esten Parks Award by Mr. S. Laws Parks, vice president for business affairs of Union College, and Mrs. Parks, presented annually to the preministerial senior student with the highest cumulative academic standing.

Literature Award, by the Tuesday Club of Barbourville, Kentucky, to the senior student majoring in English who shows the greatest excellence in the field of literature.

Samuel A. Matthews Memorial Award, a book given by Robert D. Matthews to a preministerial student.

Dr. Paul Muncy Memorial Award, by the Board of Trustees, to the senior premedical student with the highest cumulative academic standing.

The School of Music Faculty Award, to a student majoring in music for interest, initiative, cooperation, musical ability, academics, and service to the department.

Student National Education Association Award, given by the John Owen Gross chapter to the graduating senior showing the greatest excellence in the field of education.

H. H. Owens History Award, by Mrs. H. H. Owens, to the student showing the greatest excellence in the field of history.

The H. B. Jones Business Enterprise Award, in memory of H. B. Jones, an attorney in Pineville and Louisville, Kentucky, whose business interests included coal mining, railroading, and construction. The $50 award is given to a student who, in the judgment of the Scholarship Committee of the faculty, has shown initiative and enterprise in the field of business.

President's Award by President Mahlon A. Miller to the senior student who has the highest cumulative record in grades earned at Union College.

The Physical Education Faculty Award, to the man and woman senior majors with the highest cumulative academic standing.

Sampson Political Science Award, by the late Governor Flem D. Sampson, to the junior student showing the highest academic excellence in the field of political science.

The Hattie Stanberry Ecology Award, in memory of Miss Hattie Stanberry, a graduate of the Union College Academy and faculty member of the college in 1909-1910, who later became Mrs. H. B. Jones. The $50 award is given to the student or organization that, in the judgment of the Scholarship Committee of the faculty, has made a contribution to environmental improvement in the academic year.

The Thomas Storrar Memorial Award-Scholarship. — This annual cash award or scholarship is to be given to a student on Honors' Day who exemplifies the honesty, concern, and personal commitment to the Union College community which was displayed by Mr. Tom Storrar who was employed by the ARA Food Services at Union College. Circle-K Fraternity has initiated this fund.

Katherine V. Sutphen Memorial Award, by the Alumni Association of Union College, to the music student who has used his talents best during the year in serving Union College.

Judge W. W. Tinsley Family Memorial Award, by the late Mrs. Mayo Tinsley Rathfon, to the junior or senior student preparing for a legal career showing the greatest promise for future success.

Union College Faculty Award, to the Varsity Letterman with the highest scholastic average for the year.

Beverly P. and Mossie B. Wilson Memorial Award in English, by Dr. and Mrs. O. J. Wilson to the student majoring in English with the highest cumulative grade point standing who has completed three full years of residence at Union College.

Cecil H. Wilson Award to the junior student with the highest scholastic average for the year.

John Henry Wilson Award, former member of Congress from Barbourville, given by his granddaughter, Mrs. Guy D. Attkisson, Jr., of St. Petersburg Beach, Florida, to the sophomore student from the Fifth Congressional District of Kentucky who has the highest scholastic average for the year.

Graduate School

The Union College Graduate School program is accredited by the Southern Association of Colleges and Schools and is approved by the State Department of Education of the Commonwealth of Kentucky.

The Graduate School has developed and implemented Master of Arts in Education degree programs for elementary school teachers, reading specialists for the elementary schools, health teachers for the elementary schools, and elementary school librarians. It has developed and implemented Master of Arts in Education degree programs for secondary school teachers of English, social studies, science, health, and for reading specialists and secondary school librarians. With the exception of the field of library science, holders of this degree from Union College are qualified for the Standard Certificate and Rank II salary in Kentucky and for the fifth year certificate in other states. Students specializing in the field of library science are qualified for having their provisional certificate endorsed for library sciences and for Rank II in salary. The Graduate School also offers the fifth year program for the renewal of the Kentucky Provisional Certificate.

The Graduate Program at Union is designed primarily to provide advanced training for in-service teachers in the geographic area of the college. In addition to its regular academic year for the full-time graduate students, it provides summer sessions, Saturday classes, evening classes, extension classes, internships, field programs for research and study, and school-community assistance in solving school-connected problems.

The Graduate School is approved by the Kentucky State Department of Education to offer the forty-five semester hour programs leading to certification as elementary school principals and as secondary school principals. Consortia arrangements have been made with several of the state universities in Kentucky and are now being planned with other universities whereby graduate students who have completed the forty-five semester hour programs leading to certification as a principal may transfer to these institutions and complete the requirements for the Rank I program without loss of credit or time. Further details on these programs may be obtained in the Office of the Dean of the Graduate School.

Organization for Graduate Studies — The Graduate Studies Program has a Graduate Faculty, a Graduate Council, and a Dean of the Graduate School. The Graduate Council determines the policies, programs, curricula, and membership in the Graduate Faculty and in the graduate student body.

Types of Graduate Students — Graduate courses are open to: (1) students who enter and become candidates for the degree Master of Arts in Education, (2) students who are interested in the fifth year program for renewal of the provisional certificate to teach, (3) students with baccalaureate degrees who wish to broaden their education without reference to a graduate degree, and (4) students with or without a graduate degree who are interested in meeting the requirements for the Elementary or Secondary Principal's Certificate.

Requirements for Admission to the Graduate School — The applicant for admission to the Graduate School must possess a baccalaureate degree from a regionally accredited four year institution. The applicant must file an application for admission and two copies of a transcript of all previous college work. For unconditional admission, the transcript must show a sufficient and satisfactory undergraduate preparation. The student preparing for the standard secondary teaching certificate may select a major field of interest in which he has at least a minor of twenty-one semester hours. If he does not have at least a minor, he will be required to take work at the undergraduate and/or graduate level sufficient to develop a satisfactory minor. The secondary school teacher preparing to serve as a school librarian may take the entire twenty-one semester hours at the graduate level.

Admission to the Graduate School is not equivalent to admission to candidacy.

Admission to Candidacy for the Degree Master of Arts in Education — A student will be admitted to candidacy for the degree Master of Arts in Education only after he has fulfilled the following requirements: (1) Shown aptitude during a semester or full summer session (or an equivalent period of residence in Saturday classes) to accomplish work of a graduate character. A minimum of twelve semester hours of graduate work with a grade point average of at least 3.0 fulfills this requirement; (2) Possesses a valid teaching certificate based on four years of standard college preparation in the state in which it was issued; (3) Completed a minimum of fifteen semester hours of professional education courses at the undergraduate and/or graduate level; (4) Satisfied any deficiency in oral or written English that has been reported by any member of the graduate faculty; (5) Made written application to the Dean of the Graduate School for admission to candidacy for the Master of Arts in Education.

Each applicant for candidacy must have an interview with the Dean of the Graduate School. The Dean shall recommend an applicant's admission to candidacy to the Graduate Council following a positive appraisal of the student's personality, character, academic proficiency, and other factors deemed important for the completion of the particular curriculum in which the student is working.

Residence — A residence of at least one academic year or its equivalent in summer sessions and/or part-time work is required. At least one semester or one summer session of full-time residence work is required.

Time Limit — Students should fulfill the requirements for the Master of Arts in Education degree within five years. Extension of time for reasons acceptable to the Graduate Council may be granted but all degree requirements must be completed within eight consecutive years. Credit earned over a longer period of time cannot be applied toward the degree.

Course Work — Candidates for the degree Master of Arts in Education must complete thirty semester hours of graduate work in courses with a quality point average of 3.0 or better. At least fifteen semester hours must be in courses open only to graduate students (Courses numbered 500 and above). At least nine semester hours of education courses must be those limited to

graduate students. The remaining course work shall be determined by the Dean of the Graduate School and the student's graduate committee in terms of the student's needs, provided that at least twelve semester hours shall be in approved field or fields of interest outside professional education. These twelve hours shall be selected to strengthen the academic specialization of the secondary teacher and/or to further develop the general education background of the elementary or secondary teacher. All such course work shall be approved upper division or graduate in level.

Twelve semester hours per semester for full-time students, six semester hours per semester for in-service teachers, and six semester hours per summer term shall constitute the normal load for graduate students at Union College.

Not more than six semester hours obtained in a different but recognized institution may be transferred and credited to the Master of Arts in Education degree, provided that the work was completed *in a recognized graduate school, is appropriate to the student's planned program, carries a grade of at least B,* and provided that acceptance of the transfer credit does not reduce the minimum period of one academic year at Union College.

No credit toward a Master of Arts in Education degree may be obtained by correspondence.

Thesis — While the thesis is not required in any program leading to the degree Master of Arts in Education, students with special research interests are encouraged to consider a thesis. If a student elects to write a thesis, he will register for the course 599 in the appropriate department for six semester hours credit in lieu of the same number of hours of course work.

Comprehensive Examination — An oral and/or written examination covering professional education is required during the term in which graduation is scheduled.

At the conclusion of the examination, the student will be notified in writing whether he has passed or should do further study.

Commencement — Candidates for the degree Master of Arts in Education are expected to be present at commencement to receive the degree in person unless excused in writing by the Dean of the Graduate School at least two weeks prior to commencement. Such candidates must also pay an in absentia fee of $10.00.

Suggestions for Planning the Elementary Teachers Program — This curriculum is designed to improve the professional competence and skills of teachers in elementary schools. It is determined in part by the student's undergraduate program and the student's strengths and weaknesses as revealed by that record. Successful completion of the following program qualifies the graduate for the Standard Elementary Certificate (Rank II).

Professional Education — 9 semester hours

Selection from among courses such as Education 441G, 501, 502, 503, 510, 530*, 532, 535, 540, 542, 545, 550, 555E, 580.

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*Required for elementary teachers.

Non-Education Courses 12 semester hours
Courses such as Mathematics 531 and 532, English 401G, English 551, Gen. Science 594, Psychology 411G, 431G, 441G, and 525.

Electives 9 semester hours
Selection from the two groups above as well as from other courses open to graduate students.

Suggestions for Planning the Program for Kindergarten Teachers — This curriculum is designed for the elementary teacher and especially the primary teacher who wishes to qualify to teach in the Kindergarten. It is determined in part by the student's undergraduate program and the student's strengths and weaknesses as revealed by that record. Successful completion of the following program qualifies the graduate for Standard Elementary Certificate endorsed for the Kindergarten and Rank II.

Professional Education 10 semester hours
Education 540, 542, 545

Non-Professional Subject Matter 12 semester hours
Electives in the academic, related areas with the approval of the Dean of the Graduate School.

Suggested Electives 9 semester hours
Education 441G, 501, 503, 510, 530, 550
English 401G, 551
Psychology 411G, 431G, 441G, and 525.

Suggestions for Planning the Program for Reading Specialists — This curriculum is designed for the training of reading specialists at the elementary school level as well as specialists for the remedial reading program at the high school level. Persons who complete this program are recommended for the Standard Elementary or the Standard High School Certificate and Rank II.

Professional Education 9 semester hours
Education 530, 532, 535. Education 361 is to be taken for undergraduate credit prior to this sequence.

Non-Professional Subject Matter 12 semester hours
Electives in the academic, related areas with approval of the Dean of the Graduate School, but must include Psychology 525.

Other Required and Elective Courses
Select 12 semester hours from the following courses marked with an asterisk. Select 6 additional semester hours from this list.
Education 501, 503, 504, *510, 550, 580
*English 401G, 552
*Libr. Sc. 455G
*Psychology 411G, 431G, 441G

Suggestions for Planning the Program for Teachers of Health — This curriculum is designed to improve the professional competence and skills of teachers of health in the Elementary as well as in the Secondary School. It is determined in part by the student's undergraduate program and the student's strengths and weaknesses as revealed by that record. Successful completion of the following program qualifies the graduate for the Standard High School Certificate and Rank II in Kentucky and for the fifth year certificate in other states.

Professional Education — 9 semester hours
Selection of nine semester hours from among such courses as Education 441G, 501, 503, 504, 510, 550, 570, and 580.

Health — 12 semester hours
The student must select sufficient hours from the following Health courses so that when combined with his undergraduate courses in Health he will have a teaching field of twenty-one semester hours in this subject.
Health 411G, 421G, 430G, 431G, 451G, 452G, 471G, 481G, 485G, 511, 541, 551, and 592.

Suggested Electives — 9 semester hours
Selection from the two groups above as well as from other courses open to graduate students with approval of the Dean of the Graduate School. The elementary teacher must take Education 530.

Suggestions for Planning the Program for School Librarians — This curriculum is designed for the training of the elementary school librarian and the secondary school librarian depending upon which provisional certificate the teacher holds. It also qualifies the teacher for Rank II.

Professional Education — 9 semester hours
Selection from among Education 501, 503 or 504, 530*, 535, 550, and 580.

Library Science — 21 semester hours
Library Science 413G, 429G, 433G, 455G, 472G, 482G, 510, and 539.

Suggestions for Planning the Program for High School Teachers of English — This curriculum is designed to improve the professional competence and skills of teachers of English in the secondary schools. It is determined in part by the student's undergraduate program and the student's strengths and weaknesses as revealed by that record. Successful completion of the following program qualifies the graduate for the Standard High School Certificate and Rank II in Kentucky and for the fifth year certificate in other states.

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*Required for elementary teachers.

Professional Education 9 semester hours
Selection of a minimum of nine semester hours from among such courses as Education 441G, 501, 504, 510, 530, 550, and 580.

Non-Education Courses 12 semester hours
From twelve to twenty-one semester hours must be selected from the field of English upon the advice of the student's major professor. The undergraduate preparation of the student shall be taken into consideration in planning this part of the program.

Suggested Electives 9 semester hours
Selection from the two groups above as well as from other courses open to graduate students.

Suggestions for Planning the Program for Teachers of Science — This curriculum is designed to improve the professional competence and skills of teachers of science in the elementary as well as the secondary schools. It updates the teacher's preparation as well as extends that preparation in depth and breadth. It is determined in part by the student's undergraduate program and the student's strengths and weaknesses as revealed by that record. Successful completion of the following program qualifies the graduate for the Standard High School Certificate and Rank II in Kentucky, and for the fifth year certificate in other states.

Professional Education 9 semester hours
Selection from among courses such as Education 441G, 501, 504, 510, 550, 570, 580.

Non-Education Courses 12 semester hours
From twelve to twenty-one semester hours must be selected from the field of the Sciences upon the advice of the student's major professor. The undergraduate preparation of the student shall be taken into consideration in planning this part of the program.

Suggested Electives 9 semester hours
Selection from the two groups above as well as from other courses open to graduate students with approval of the Dean of the Graduate School.

Suggestions for Planning the Program for High School Teachers of the Social Studies — This curriculum is designed to improve the professional competence and skills of teachers of the social studies in the secondary schools. It is determined in part by the student's undergraduate program and the student's strengths and weaknesses as revealed by that record. Successful completion of the following program qualifies the graduate for the Standard High School Certificate and Rank II in Kentucky and for the fifth year certificate in other states.

Professional Education 9 semester hours
Selection of a minimum of nine semester hours from among such courses as Education 441G, 501, 504, 510, 550, and 580.

Non-Education Courses 12 semester hours
From twelve to twenty-one semester hours must be selected from the field of Social Studies upon the advice of the student's major professor. The undergraduate preparation of the student shall be taken into consideration in planning this part of the program.

Suggested Electives 9 semester hours
Selection from the two groups above as well as from other courses open to graduate students.

Suggestions for Planning the Program for the Elementary School Principal — This curriculum is designed for the teacher who wishes to prepare for the position of the elementary school principalship. It consists of a program of 45 semester hours including the work taken to qualify for the degree Master of Arts in Education. Any of the 400G courses may have been taken at the undergraduate level and in that case electives may be taken to complete the requirements for this program. Persons who complete this program are recommended for the Elementary School Principal's Certificate and may transfer to one of the state universities in Kentucky and complete the requirements for Rank I without loss of credit. Details of these consortia with the state universities may be obtained from the Dean of the Graduate School.

Professional Education
Education 501, 502, 503, 510, *530, 550, 555E, 571, 580, 590

Non-Education Courses
Psychology 401G, 411G, 441G
Sociology 511

Suggested Electives
Select from other courses open to graduate students, and with the approval of the student's advisor, enough courses to total 45 semester hours including the courses taken for the graduate degree.

Suggestions for Planning the Program for the Secondary School Principal — This curriculum is designed for the teacher who wishes to prepare for the position of the secondary school principalship. It consists of a program of 45 semester hours including the work taken to qualify for the degree Master of Arts in Education. Any of the 400G courses may have been taken at the undergraduate level and in that case electives may be taken to complete the requirements for this program. Persons who complete this program are recommended for the Secondary School Principal's Certificate and may transfer to one of the state universities in Kentucky and complete the requirements for Rank I without loss of credit. Details of these consortia with the state universities may be obtained from the Dean of the Graduate School.

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*Required for the Standard Elementary Certificate.

Professional Education
Education 501, 502, 504, 510, 550, 555S, 571, 580, 590

Non-Education Courses
Psychology 401G, 411G, 441G
Sociology 511

Suggested Electives
Select from other courses open to graduate students, and with the approval of the student's advisor, enough courses to total 45 semester hours including the courses taken for the graduate degree.

Fifth Year Program for Renewal of Provisional Teaching Certificates — All new provisional teaching certificates now issued in Kentucky on the basis of a four-year program and a bachelor's degree are valid for an initial period of ten years and shall be renewed upon "completion of a planned fifth year program of college work." The fifth year program is a mandatory requirement for all teachers, is available to all teachers, and will be planned appropriate to the needs of their respective teaching assignments. It is understood that the teachers involved are certified professionals who have already completed one teacher education program. They will not be subjected to further academic hurdles or screening processes, but will be continuously upgraded on the job through this program.

The following plans will satisfy the planned fifth year requirement for the renewal of the provisional teaching certificates and shall qualify a teacher for Rank II classification under the Foundation Law.

Plan I The completion of the requirements of the degree Master of Arts in Education at Union College.

Plan II The completion of a planned fifth year program in accordance with the following guidelines:

A. The fifth year program shall be planned individually with each applicant by the Dean of the Graduate School.

B. The fifth year program shall consist of thirty-two semester hours credit with an academic standing of no less than 2.2. At least eighteen semester hours must be earned at Union College in residence. At least twelve semester hours shall be graduate level course work. At least twelve semester hours shall be in professional education. At least twelve semester hours shall be from non-professional academic disciplines.

C. Credit earned by correspondence shall not apply toward the fifth year program.

Courses of Instruction — The Curricula section following lists both undergraduate and graduate courses. Those courses numbered 500 and above are open only to graduate students. All courses numbered in the 400's and followed by "G" are open only to upper division and graduate students. All other courses are open only to undergraduate students.

Curricula

Students should plan carefully their college work, keeping in mind the general requirements for degrees and their vocational or professional interest. The Dean of the Faculty, the Registrar, the student's Advisor, and Department Heads are all available to assist in the planning of a balanced program.

Students who have not made a vocational or professional choice and students who expect to enter a professional school which requires a general college education are urged to schedule their first two years' work from the following program.

Freshman Year	*Sem. Hrs.*
English 111-112	6
Natural Science	8
Humanities	3
Social Science	6
Electives	5

Sophomore Year	*Sem. Hrs.*
Humanities	9
Foreign Language	6
Social Science	6
Electives	9-11

The pattern of courses for a junior or a senior is determined by the student's choice regarding majors and minors.

Curricula for various objectives are outlined in detail in the Divisions which follow.

DIVISIONS OF INSTRUCTION

The following seven divisions are maintained at Union College:

I. Education
- Education
- Library Science

II. Fine Arts
- School of Music
- Art
- Drama and Speech

III. Health and Physical Education
- Health
- Physical Education

IV. Languages
- English
- French
- German

V. Religion and Philosophy
- Philosophy
- Religion

VI Natural Sciences
- Biology
- Chemistry
- Environmental Studies
- General Science
- Home Economics
- Mathematics
- Physics

VII. Social Studies
- Business
- Economics
- History
- Political Science
- Psychology
- Sociology
- Social Work

The course offerings in these divisions are listed in the order given above in the following pages. A student's background in a given discipline and his willingness to work should determine the courses he chooses. If a student is not certain he has the background for a course, he should consult the instructor. 500 courses are for graduate students only. Some courses, 400-499, can carry graduate credit.

Year courses, the first semester of which is prerequisite to the second semester, bear hyphenated numbers: 101-102; 321-322.

In courses with laboratory, the lecture and laboratory hours per week are shown in parentheses following the descriptive title, thus: CHEMISTRY 111-112. GENERAL CHEMISTRY (3.3).

One semester hour credit indicates 15 weeks of one sixty-minute period lecture per week or two sixty-minute laboratory periods or the equivalent.

Applied music students who are music majors or music minors receive a minimum of sixty minutes of instruction per week regardless of level or credit. Students wishing to enroll for applied music lessons for elective credit will find that conditions may vary from semester to semester, depending on the teaching load in the School of Music. Students in this category will receive a minimum of thirty minutes of instruction per week and may receive more if conditions permit.

Division I:

Education

1. Education

Mr. Simms *Mr. Boyd* *Miss Moore*

Mr. Robbins *Miss Miles* *Mrs. Mays*

Application for Admission to Teacher Education Program. — Formal application for admission to the Teacher Education program must be filed with the Head of the Department of Education during the second semester of the sophomore year. Transfer students with junior standing and beyond should apply during their first semester in residence. These applications will be acted on by the Committee on Teacher Education. Application blanks may be secured from the office of the Head of the Department of Education or from the office of the Registrar.

A quality point standing of 2.00 is required for admission to the Teacher Education Program. A bulletin listing other criteria and the procedure for admission to the program as well as to student teaching may be secured from the office of the Head of the Department of Education.

Application for admission to the Teacher Education Program does not include an application for student teaching. A separate application for admission to student teaching must be filed with the Director of Student Teaching one full semester in advance of the time the Student Teaching is to be done.

Teacher Certification. — Members of the Department of Education will act as general advisors for those who plan to teach. Graduates of Union College who meet the requirements can secure the Provisional High School Certificate or the Provisional Elementary Certificate issued by the Kentucky State Department of Education.

Elementary Education Curriculum

I. *General Education*
   A. Humanities — 24 semester hours*
      English Composition ..... 6 hrs.
      Literature ..... 3 hrs.
      English Elective ..... 3 hrs.
      Art Elective ..... 3 hrs.
      Music Elective ..... 3 hrs.
      Electives from Literature, Fine Arts (Music, Art, Drama and Speech), Foreign Languages, Philosophy, and Religion ..... 6 hrs.
   B. Mathematics and Natural Science — 12 semester hours
      Biology, Chemistry, Mathematics, Physics, Physical Science. At least 4 semester hours shall be in the field of physical science, and at least 4 semester hours shall be in the field of biological science.
   C. Social Sciences — 12 semester hours
      History, Economics, Political Science
      Sociology, Geography

II. *General Requirements*
   A. Social Science Elective ..... 6 hrs.
   B. Introduction to Psychology ..... 3 hrs.
   C. Children's Literature ..... 3 hrs.
   D. Math for Elementary School Teachers ..... 6 hrs.
   E. Health and/or Physical Education ..... 3 hrs.

III. *Professional Preparation*
   A. Introduction to Education ..... 3 hrs.
   B. Elementary School Art ..... 3 hrs.
   C. Methods of Teaching Mathematics ..... 3 hrs.
   D. Reading instruction in the Primary Grades ..... 3 hrs.
   E. Elementary School Music ..... 3 hrs.
   F. Reading in grades above the Primary ..... 3 hrs.
   G. Methods and materials in the Elementary School ..... 4 hrs.
   H. Student Teaching ..... 10 hrs.

IV. *Completion of the Baccalaureate Degree.*

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*No more than 6 hours in any one discipline.

Secondary Education Curriculum

I. General Education

A. Humanities — 24 semester hours*

English Composition ..... 6 hrs.
Literature ..... 3 hrs.
Fifteen semester hours selected from Literature, Fine Arts (Music, Art, and Drama, Speech), Foreign Languages, Philosophy, and Religion ..... 15 hrs.*

B. Mathematics and Natural Science — 12 semester hours

Biology, Chemistry, Mathematics, Physics, Physical Science. At least 4 semester hours shall be in the field of physical science, and at least 4 semester hours shall be in the field of biological science.

C. Social Science — 12 semester hours*

Twelve semester hours from Anthropology-Cultural, Economics, Geography, Government, History, Political Science, Sociological Foundations, Sociology, Western Civilization.

II. General Requirements for Students Preparing to Teach in Secondary Schools

A. Personal and Community Health ..... 3 hrs.

B. Majors, Minors, and Areas of Concentration**

An Area of Concentration ..... 48 hrs.
One Major of 30 semester hours ..... 30 hrs.
One Major of 30 and one Minor of 21 semester hours ..... 51 hrs.

Majors in subject combinations shall require 36 semester hours credit. In a combination of subjects for majors, not less than 12 semester hours shall be in each subject within the major. Method courses shall be in addition to these in the majors and minors.

III. Pre-professional preparation

Introduction to Psychology ..... 3 hrs.
Electives which may include such courses as Sociology, Anthropology, Psychology, Biology, Philosophy, etc. (These courses may have been completed as general education) ..... 9-15 hrs.

IV. Professional Preparation for Secondary Teachers

A. Introduction to Education ..... 3 hrs.

B. Human Growth and Development ..... 3 hrs.

C. Fundamental Processes and Learning Materials

Methods and Materials in Secondary School ..... 4 hrs.

D. Supervised Student Teaching in the Secondary School ..... 10 hrs.

NOTE: An average grade of "C" shall be required in all professional education courses.

V. Completion of the Baccalaureate Degree

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*No more than 6 hours from any one discipline.

**Choose one of the three options listed.

1. Education

Education 241. Introduction To Education. Three hours
The purpose and function of education. Classroom and school organization, guidance services, library services, evaluation, reporting to parents and other phases of the school program. First and second semesters.

Education 271. Elementary School Art.
(See Art 271).

Education 341. Methods of Teaching Mathematics in Elementary School. Three hours
Modern methods and materials for teaching mathematics in the elementary school. *Prerequisite:* Mathematics 203 or equivalent. Second semester.

Education 361. Reading Instruction in the Primary Grades. Three hours
Methods and materials for the teaching of reading in the primary grades including observations, micro-teaching demonstrations, making of lesson plans, and evaluation of a child's readiness.

Education 362. Reading in Grades above the Primary. Three hours
Emphasis on study skills, individualized programs and reading in the content subjects.

Education 373. Elementary School Music
(See Music 373).

Education 401G. Introduction to Counseling and Guidance.
(See Psychology 401G).

Education 432. Methods and Materials in the Elementary School. Four hours
Emphasis on language arts, social studies, and science; directed observation; taken with Education 471, 472. *Prerequisites:* Education 241, 341, 361, and Psychology 351. 90 semester hours college credit; quality point standing 2.00, overall and at Union College; one semester residence and admission to the Teacher Education Program at Union College. No late registration.

Education 441G. Measurement and Evaluation. Three hours
Instruments and techniques for evaluating abilities, aptitudes, personality traits, and interests will be examined, teacher-made evaluative instruments will be given special emphasis. Application of test results to vocational and educational guidance is to be stressed. (Also Psychology 441G).

Education 452. Methods and Materials in the Secondary School. Four hours
Current teaching methods, materials and innovations in the secondary school with directed observations. *Prerequisites:* Same as for Education 432, except with Education 341, 361 omitted. In addition, a quality point stand of 2.00 or above is required in areas of concentration, major, and minors.

Education 471, 472. Supervised Student Teaching in the Elementary School. Five hours
Laboratory experiences in working with children, teachers, and others in school and community. Supervision by a qualified classroom teacher. Taken with Education 432 for a period of 10 weeks. Transportation and meals paid by the students. Application to be made one semester in advance.

Education 472L, 482L. Laboratory Experiences in Education. Four or five hours
The substitute for student teaching. Considers current problems and trends in teaching with laboratory periods for construction of classroom materials. *Prerequisites:* Two years of successful classroom teaching experience, Education 241 and 432 or 452, scholastic standing of 2.00 or above, completion of 90 semester hours; approval by the Committee on Teacher Education; one semester residence at Union.

Education 481, 482. Supervised Student Teaching in the Secondary School. Four or five hours
Under the direction of an experienced teacher, the student teacher directs the usual teaching activities in the classroom for 10 weeks in local public schools. Application should be made one full semester in advance of the time the teaching is to be done. *Prerequisite:* Completion of Education 452.

Education 495-496. Advanced Readings in Education. Three hours each
Open only to advanced students in the field of Education who wish to do intensive reading in a specific interest area. *Prerequisites:* Twelve semester hours of Education and permission of the Head of the Department.

Education 500. Review of Current Educational Literature. Three hours
The educational literature found in current educational publications, with particular stress on periodicals.

Education 501. History and Philosophy of Education. Three hours
Education in the United States. An analysis of the growth of various educational philosophies and the relation of these to modern educational practice.

Education 502. Curriculum Theory and Development. Three hours
Curricular organization, materials, and methods. Techniques for evaluating and constructing curricula.

Education 503. Elementary School Curriculum. Three hours
Curricular organization, materials, and methods currently used in elementary schools. Techniques for evaluating and constructing curricula.

Education 504. Secondary School Curriculum. Three hours
Curricular organization, materials, and methods currently used in secondary schools. Techniques for evaluating and constructing curricula.

Education 510. Television and other Educational Media. Three hours
Gives practice in operating educational media and construction of classroom materials. Emphasis given to educational television use in the classroom.

Education 511. Educational Sociology. Three hours
Analysis of educational institutions in terms of the interaction of individuals and groups, educational processes, school and community relations, and the function of the educator as an agent of socialization.

Education 525. Psychology of Reading Through Supervision. Three hours
Basic concepts and principles of learning with its application to reading.

Education 530. Diagnostic and Remedial Procedures in Reading. Three hours
Current research findings in diagnostic and remedial procedures in reading. Techniques for applying diagnostic instruments for locating causes of serious reading deficiencies are developed along with suggested remedial procedures.

Education 532. Techniques and Materials for Remedial Reading. Three hours
Techniques and materials appropriate to the correction of reading difficulties. *Prerequisite:* Education 530.

Education 535. Practicum in Teaching Reading with Clinic. Three hours

Education 540. Introduction to Early Childhood Education. Three hours
Survey of the physical, emotional, mental, and psychological development of the child under six, and the role of the kindergarten teachers in working with such a child.

Education 542. Fundamentals of Kindergarten Education. Three hours
This course focuses primarily on kindergarten curriculum, materials, organization of the kindergarten program, creative experiences for the pre-school child, parent education and home visitation, understanding of families, community resources, planning learning experiences, and evaluation of pupil programs and progress. Direct observation and participation in the kindergarten setting.

Education 545. Practicum in Kindergarten Education. Three hours
This course offers direct, guided, supervised experiences with kindergarten children under the supervision of a qualified classroom teacher. This course also may be taken at the undergraduate level as part of the required Supervised Student Teaching.

Education 550. Improvement of Instruction Through Supervision. Three hours
Democratic school procedures and the methods for improving instruction, evaluation of means, methods, and results of action.

Education 555E The Elementary School Principal. Three hours
An analysis of the elementary school building unit as a sub-system within a larger complex organization. Special emphasis on the changes in the role of the elementary school principal as a result of changes in society and in the schools.

Education 555S The Secondary School Principal. Three hours
An analysis of the secondary school building unit as a sub-system within a larger complex organization. Special emphasis on the changes in the role of the secondary school principal as a result of changes in society and in the schools.

Education 560. Supervision of Student Teaching. Three hours
Experiences deemed necessary for developing students into effective teachers are considered, with attention to participation in teacher-student conferences and planning and executing a work program. *Prerequisite:* One year teaching experience or consent of the instructor.

Education 561. Internship for the Supervising Teacher. Two-four hours
A followup course for Education 560, primarily in the field with part time on the campus in seminars, reports of action research with and about student teaching, honors reading, and evaluation. Open only to those who have had Education 560 and who have a student teacher during the course.

Education 570. Statistics in Education and Psychology. Three hours
Basic statistical course for research in education and psychology. Studies and practices in making distributions, computing measures of central tendency, variation and correlation.

Education 571. School Organization and Administration. Three hours
Organization of the modern public school, an understanding of such problems as staff-teacher relationships, program of studies, teacher records and reports, personnel and public relations, utilization of teacher time and of physical facilities.

Education 580. Methods of Educational Research. Three hours
Types of research, selection of problems, collection and classification of data; organization, presentation, and interpretation of materials.

Education 595. Seminar in Educational Problems. Three hours
Guided study and research toward the solution of specific educational problems encountered by members of the seminar.

Education 599. Thesis. Six hours

Library Science

Mrs. Farr Mrs. Saddler

Designed to allow felxibility of interests; by pursuing prescribed hours, students may (1) Qualify as school librarians-21 hours (including L.S. 472), (2) Qualify for the library experience certificate issued by the Kentucky Department of Libraries, (3) Obtain the foundation courses necessary for admittance to a graduate library school, or (4) Substitute Library Science for a field of concentration for the degree of Master of Arts in Education.

Library Science 133. Information Aids to Learning One hour
A study of the techniques and basic tools of information research. Designed for undergraduates.

Library Science 410. Non-book Media. Three hours
(See Education 510). Offered only during summer sessions.

Library Science 413G. Organization and Administration of the School Library. Three hours
Designed to help beginning librarians organize and administer school libraries. Planning and managing the library; ordering and preparing materials for use; and work with students and teachers. Offered summers only.

Library Science 429G. Cataloging and Classification. Three hours
Emphasis on sufficient practice to enable students to handle cataloging in the average library situation. Dewey Decimal classification used and Anglo American cataloging rules followed. Offered only during summer sessions.

Library Science 433G. Reference and Bibliography. Three hours
Study of essential reference works according to function performed and area of subject specialization.

Library Science 439. Selection of Library Materials. Three hours
(See Library Science 539).

Library Science 455G. Books and Related Materials for Children. Three hours
A survey of children's literature designed to make the student familiar with a variety of children's books and other library materials suitable for supplementing the school curriculum and encouraging recreational reading in the elementary school.

Library Science 472G. Library Practice. Three hours
Observation and supervised practice in a school library combined with some seminar discussions. In-service teachers and in-service librarians should plan to take library practice in the first summer session. *Prerequisites:* Library Science 413, 429, 433, and 439.

Library Science 482G. Seminar in Library Practice. Three hours
Combining seminars with observations in the field. For persons with a valid teaching certificate and at least two years of teaching experience who are acting as school librarians. Requires special permission.

Library Science 510. Non-book Media. Three hours
(See Education 510). Offered only during summer sessions.

Library Science 539. Selection of Library Materials. Three hours
A general study of selection principles and methods, with emphasis on print and non-print materials as they interpret modern problems, and laboratory experience in utilization of selection aids.

Division II:

Fine Arts

1. Art *2. Drama and Speech* *3. School of Music*

1. Art

Mr. Upchurch

The Art Department offers courses to acquaint all students with art and its cultural role in a liberal education through the studio experience and the history of art.

The Art Department reserves the right to retain a maximum of two works of art from each student in each studio course.

Requirements for a Major in Art. Union College offers a major in Art that includes twenty-four hours earned at Union and six hours that must be earned elsewhere. The curriculum contains a core of eighteen hours, including Art Fundamentals (201, 202), six hours; Drawing and Painting (341, 342), six hours; and Survey of Art (373, 374), six hours. The remaining six hours to be taken at Union College and the content and nature of the six transferred hours must be the subject of agreement between the Art Department, the Chairman of the Division of Fine Arts, and the student concerned. In essence, this portion of the curriculum may be tailored to suit the student's interests and needs. As soon as such a program is agreed upon, it becomes an individualized curriculum for the student in question. Changes may be made only with the approval of all of the parties listed above. Exhibitions are required for all art majors. Details are available from the Department Head.

Requirements for a Minor in Art. Twenty-one semester hours including Art 495.

Art 132. Introduction to Art. Three hours
An introduction to Art outlining basic approaches, principles, techniques and media as well as styles of expression, both past and present.

Art 201-202. Art Fundamentals. Three hours
A study of the elements of art, the principles of design and form through experimentation of various media and techniques in the studio.

Art 271. Elementary School Art. Three hours
A studio course involving many kinds of art projects in many media; suitable and practicable for elementary grades. (Also Education 271).

Art 341-342. Drawing and Painting. Three hours
A studio course working in various painting and drawing media, with major emphasis on oil media. Some work in three-dimensions. Emphasis on the creative approach. *Prerequisite:* Art 201, 202.

Art 373. Survey of Art: Ancient through Renaissance. Three hours
A survey of the development of western art from pre-historic times through the period of the High Renaissance.

Art 374. Survey of Art: Modern. Three hours
A survey of the development of western art from the end of the High Renaissance to the present.

Art 441. Advanced Studio. Three hours
Studio work in the various painting, drawing and three-dimensional media. Emphasis on the creative approach. *Prerequisites:* Art 201, 202, 341, 342.

Art 495. Special Problems in Art. Three hours

2. Drama and Speech

Mrs. Dontchos

The Fine Arts Division offers a major and a minor in Drama. Its objective is to give all students an opportunity to participate in dramatic productions and to acquaint both the college and the community with the social, religious, aesthetic, and intellectual expressions of the theatre. Its further objective is to train and enlighten interested students so that they may contribute intelligently to theatrical endeavors.

Requirements for a Major in Drama: 36 semester hours, including play production, six hours; acting, six hours; history of the theatre, six hours; speech, six hours; dramatic literature, six hours; directing, three hours; practical experience, three hours. Dramatic literature requirements may be met by taking any cross-listed literature course in which the subject matter of content is dramatic literature.

Requirements For a Minor in Drama: Twenty-one semester hours.

Drama 131. Introduction to the Theatre. Three hours
Basic principles underlying the origin and development of theatrical presentation. Brief study of elements of production.

Drama 151-154. Theatre Practicum. One hour
Actual practice in major college theatrical productions in the areas of acting, directing, and production work. Maximum of four hours toward graduation.

Drama 251. Fundamentals of Acting. Three hours
Theory and practice behind analysis and presentation of a role.

Drama 301. Pre-Modern Drama. Three hours
(See English 301).

Drama 302. Modern Drama. Three hours
(See English 302).

Drama 331. Play Production. Three hours
Study and practice in theatrical costuming and make-up. *Prerequisite:* Drama 131 or permission of instructor.

Drama 332. Play Production. Three hours
Study and practice in theatrical design and stage lighting. *Prerequisite:* Drama 131 or permission of instructor.

Drama 352. Advanced Acting. Three hours
Scene study and period styles of acting. *Prerequisite:* Drama 251 or permission of instructor.

Drama 363. Classical Drama in English. Three hours
Major Greek tragedies and comedies, Roman comedies and Seneca as influential literature and works for performance.

Drama 371-372. Shakespeare.
(See English 371-372).

Drama 381. History of the Theatre. Three hours
Study of theatrical presentation from Golden Age of Greece to Ibsen. *Prerequisite:* Junior or senior standing or permission.

Drama 382. History of Modern Theatre. Three hours
Study of theatrical presentation from Ibsen to present. *Prerequisite:* Junior or senior standing or permission.

Drama 452. Directing. Three hours
Study and analysis of scripts for production and of production techniques. Staging of one-act play required. *Prerequisite:* Permission from instructor.

Drama 495-496. Special Problems in Drama. One to three hours
Prerequisite: permission of instructor.

Speech 131. Fundamentals of Speech. Three hours
Study and practice in the basic elements of speech applicable in daily life, such as voice, articulation, pronunciation, bodily activity, speech organization, outlining, and research.

Speech 231. Interpretative Reading. Three hours
Analysis and oral interpretation of the various forms of literature. Special emphasis on developing qualities for interpretation of character, emotion, and artistic impersonation.

School of Music

Mr. Green Mr. Campbell

Mr. Gunderson Mr. Dontchos Mr. Price

Mrs. Johnson

The School of Music functions within the total academic structure of Union College and participates in the granting of the following degrees: Bachelor of Music (Applied Music or Music Education Major), Bachelor of Arts (major in music), and Bachelor of Science (major in music).

The purposes of the School of Music are: To offer intensive professional training to the music major and to provide the general college student with the opportunity to become acquainted with music as one aspect of a liberal culture, either as appreciative listeners or as trained participants; to prepare students for graduate study; as church organists and choirmasters; as private teachers of music; and as teachers of music for the public schools.

Admission. The requirements for admission to the School of Music are the same as for admission to the College in general, except statement No. 1 shall be supplanted by the following;

1. Write to the Director of the School of Music, Union College, Barbourville, Kentucky, for Application for Admission forms.

Regulations. All academic regulations and other requirements and specifications of the Union College catalog will apply unless specific mention is made in the School of Music section of the catalog.

No Special Music Fees. No special fees exist for private lessons in music. Students majoring in other fields of study may avail themselves of class lessons in piano, voice, wind and stringed instruments. Upon sufficient advancement, these students also may receive private instruction without any special fee being charged.

Advanced Placement and Curriculum Acceleration. The School of Music recognizes that its students come with widely varying backgrounds and abilities. In the case of the student with a superior pre-college background in music, advanced placement by

examination is possible. In addition, it is also possible for the outstanding student to accelerate his progress through the curriculum by opting for independent study. This process, however, places the responsibility for meeting curricular requirements squarely on the student. In the case of curriculum acceleration, a minimum of three years is required, principally to assure sufficient grounding in the applied music area. Permission of the Director of the School of Music and the student's major professor is required.

Final Examinations For Graduation. These Examinations, written and/or oral, shall be administered when the student and his advisor make such request of the School of Music. These shall be not earlier than three months nor later than two weeks prior to the completion of all work toward the degree.

Transfer Credit. Transfer credit will be accepted only upon examination. Examinations are given during orientation and registration periods of each semester.

Preparatory Department. Preparatory work in piano, wind, voice and stringed instruments is offered in the form of class or private lessons for pre-college students. There is a fee charged for these lessons. A similar arrangement is available for special students of college age and above who are not enrolled as full-time students in the regular curriculum.

Teacher Certification. The degree program in Music Education, leading to the Bachelor of Music, fulfills the Kentucky requirements for teacher certification. Kentucky teacher certification is reciprocal with many other states.

Piano Proficiency. All music majors must pass a proficiency examination in piano prior to graduation.

Ensemble Requirement. All majors are required to participate a minimum of seven semesters in one ensemble and a minimum of four semesters in another ensemble area.

Program Attendance. All applied students are required to attend all Monday afternoon recitals.

Majors. All majors are required to attend three fourths* of the total number of programs. A year's work in the applied field is not complete until the recital requirements are fulfilled.

Minors. All minors are required to attend one-half* of the total number of programs.

Others registered for applied music. Others registered for applied music must attend one-third of the total number of programs.

Music 373, 374, and Music 191-4. Recital attendance for students in Music 373-4 and Music 191-4 is at the discretion of the teaching staff.

Student Recitals. Student recitals will be held the third Monday of each month at 4:00 p.m. With the exception of first semester students, all applied students must perform a minimum of one time each semester.

Each student majoring in music presents a junior recital of at least thirty minutes performing time and a senior recital of at least forty-five minutes performing time.

Continuing Examinations. Examinations in seminar classes and tutorial instruction shall proceed at the request of the student and his faculty advisor, and will not necessarily occur in conjunction with the regularly scheduled examination periods of Union College. These examinations, administered by the students advisory committee, shall be both written and oral and when the student demonstrates mastery of a particular area of knowledge, he shall be permitted to proceed immediately to the next area.

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*The total number of programs is made up of all School of Music programs, Artist Series programs, and Southeastern Kentucky Concert Series programs on campus. Recital attendance credit may also be obtained by attending Southeastern Kentucky Concert Series programs held off campus. Check the Dept. of Music bulletin board for the total number of programs for the current semester.

Recital Examinations. Junior and Senior recital examinations shall be given no later than two weeks prior to the recital.

Music Library. The music library, located in the Fine Arts Building, contains records, scores, and listening facilities.

Minor in Music. Twenty-one semester hours, including: Music 161, 162; three semester hours selected from either Music 393 or 394; two semester hours of music electives; two years of ensemble; and completion of the 200s level of course numbering in one field of applied Music.

Music Major, B.A. and B.S.

Please see general requirements on page 18.

Academic Emphasis	*Sem. Hrs.*
Foundations of Music	8
Harmony and Ear Training	8
Form and Analysis	4
Music History	12
Applied Music	8
Ensemble	0
	40

Applied Emphasis	*Sem. Hrs.*
Foundations of Music	8
Harmony	6
Form and Analysis	4
Music History	6
Applied Music	16
Ensemble	0
	40

Bachelor of Science
Combination Music and Business Major

Special curricula combining the study of music with preparation in business may be designed to fit the needs of the individual student.

Bachelor of Music Degrees

Music Requirements. These requirements apply to the BM (Applied Music).

Academic	*Sem. Hrs.*
Foundations of Music	8
Harmony and Ear Training	8
Form & Analysis	4
Counterpoint	4
Music History	6
Applied Field Literature	4
	34

Applied	*Sem. Hrs.*
Major Applied Study	24
Recitals	2
Piano Secondary*	4
Stringed Instruments Class*	2
Wind Instruments Class*	2
Voice Class*	1
Pedagogy	1
Ensemble	0
	36

Continued

Bachelor of Music Degrees

General Requirements. These apply to the BM (Applied Music).

	Sem. Hrs.
Humanities	12
English 111-112	6
Foreign Language	12
Science	4
Social Science	9
Electives	15
	58

Music Requirements. These apply to the BM (Music Education).

Academic	*Sem. Hrs.*
Foundations of Music	8
Harmony and Ear Training	8
Form & Analysis	4
Music History	6
Conducting	4
Secondary School Music	3
Music Arranging	2
	35

Applied	*Sem. Hrs.*
Major Applied Study	16
Recital	0
Piano Secondary*	4
Stringed Instruments Class*	2
Wind Instruments Class*	2
Voice Class*	1
Ensemble	0
	25

*Certain of these may be waived or passed by examination if the skill involved coincides with the students Major Applied study area. In this case the equivalent number of ensemble hours may be applied toward the total needed for graduation.

General Requirements. This includes both the regular college requirements listed on page 17 and the education Certification Requirements on page 75 for the music education major. Music majors may use 9 hours of music to help fulfill humanities requirements.

Course Offerings

The content of applied music courses outlined below is for the guidance of the student, and is therefore a flexible, rather than a rigid description of the requirement. The letter S following a course numbering indicates that the course is for students other than those enrolled in the Bachelor of Music Curriculum, or is a secondary applied field for music majors.

Applied Music

Music 101S-102S. Organ, Secondary. One or two hours
Manual and pedal technique, pedal scales, easy compositions for manuals with pedal, Gleason Organ Method.

Music 201S-202S. Organ, Secondary. One or two hours
Pedal scales and techniques, Gleason Organ Method; Short Preludes and Fugues, Bach.

Music 301S-302S. Organ, Secondary. One or two hours
Pedal scales and technique, Gleason Organ Method; Chorales from the Orgelbuchlein, Bach; Mass for the Convents, Couperin.

Music 401S-402S. Organ, Secondary. One or two hours
Pedal scales and chords; alrger preludes and fugues, Bach; pre-Bach compositions; easier pieces of Brahms and Franck.

Music 101-102. Organ. Two or three hours
Gleason Organ Method; Bach, Short Preludes and Fugues, Orgelbuchlein; F. Couperin, Mass for the Convents; Vierne, Twenty-four Pieces in Free Style. Co-requisite: Piano 111S-112S.

Music 201-202. Organ. Two or three hours
Continued work in Gleason Organ Method; Bach, easier preludes and fugues; pre-Bach composers; Brahms, Chorale Preludes; Franck, easier pieces. Co-requisite: Piano 211S-212S.

Music 301-302. Organ. Two or three hours
Bach, larger preludes and fugues such as B minor; compositions by earlier composers such as Buxtehude and Grigny; Hindemith, Sonatas, contemporary French composers such as Messiaen, Alain, Langlais.

Music 307. Junior Recital. Zero or one hour

Music 401-402. Organ. Two or three hours
Bach, Sonatas and larger preludes, fantasias, toccatas, preludes and fugues; Franck, Chorales; larger works of Messiaen, Langlais, Dupre and others.

Music 405-406. Organ Literature. Two hours
The development of the organ and its literature since the fourteenth century. Emphasis is placed on the close relationship of the construction of the instrument and the forms of its literature.

Music 407. Senior Recital Zero or one hour

Music 111S-112S. Piano, Secondary. One or two hours
Major and minor scales, arpeggios in inversions, two octaves. Technical studies as Kohler, Opus 157 and 242; Bach-Carroll, Bk. 1; Sonatinas (Clementi, Opus 36); Schulmann, Opus 68; Chopin, Opus 28; Contemporary Music.

Music 211S-212S. Piano, Secondary One or two hours
Major and minor scales, arpeggios, dominant, and diminished seventh with inversions, four octaves. Czerny, Opus 636; Bach, Two-Part Inventions; Schumann, Kinderscenen; Beethoven Sonatas, Opus 49; Contemporary Music.

Music 311S-312S. Piano, Secondary. One or two hours
See Music 111-112.

Music 411S-412S. Piano, Secondary. One or two hours
See Music 211-212.

Music 111-112. Piano. Two or three hours
Major and minor scales and arpeggios four octaves, parallel and contrary motion; Czerny, Opus 299; Bach, Three-Part Inventions; Sonatas by Haydn, Mozart, and Beethoven; Compositions of Romantic and Contemporary Composers.

Music 211-212. Piano. Two or three hours
Major and minor scales in thirds, sixths, and tenths; arpeggios, dominant, and diminished sevenths. Czerny, Opus 740; Bach, WTC 1; Sonatas by Mozart and Beethoven; Romantic, Impressionistic and Contemporary compositions.

Music 311-312. Piano. Two or three hours
Scales in double thirds. Chopin Etudes; Bach, WTC II and larger works. More difficult Romantic, Impressionistic and Contemporary compositions.

Music 317. Junior Recital. Zero or one hour

Music 411-412. Piano. Two or three hours
Chopin Etudes; a standard concerto; Material for a Senior Recital including one large Romantic composition.

Music 413-414. Sight Reading & Accompanying. One hour
Proficiency in reading the various clefs, vocal scores, and accompaniments, with an emphasis on sensitive accompanying.

Music 415-416. Piano Literature. Two hours
A survey of the development of keyboard music.

Music 417. Senior Recital. Zero or one hour

Music 121S-122S. Voice, Secondary. One or two hours
See Music 121-122.

Music 221S-222S. Voice, Secondary. One or two hours
See Music 221-222.

Music 321S-332S. Voice, Secondary. One or two hours
See Music 321-322; except less extensive repertoire is required.

Music 421S-422S. Voice, Secondary. One or two hours
See Music 421-422; except less extensive repertoire is required.

Music 121-122. Voice. Two or three hours
Principles of posture, breathing, tone focus, diction, phrasing, and interpretation. Repertoire: songs in English; songs of old Italian and French masters; folk songs.

Music 221-222. Voice. Two or three hours
Continuation of Music 121-122.

Music 321-322. Voice. Two or three hours
Advanced technical problems. Repertoire: German lieder; French, English, and American art songs; opera and oratorio arias; contemporary song literature.

Music 327. Junior Recital. Zero or one hour

Music 421-422. Voice. Two or three hours
Continuation of Music 321-322.

Music 425-426. Voice Literature. Two hours
Vocal literature and style in German lieder, contemporary English and American Art Song, French melodies, Elizabethan and Baroque Songs and Sacred Solo Songs including a study of language pronunciation.

Music 427. Senior Recital. Zero or one hour

Violin, Viola, Cello or Bass.
The course outline is for violin study. A similar outline exists for other instruments.

Music 131S-132S. Violin, Secondary. One or two hours
Basic violin fundamentals, left and right hand positions, posture, major and minor scales and arpeggios in the first position. Studies: Wolfhart and Sitt. Repertoire: Graded solo material of minimum difficulty.

Music 231S-232S. Violin, Secondary. One or two hours
Second and third positions. Major and minor scales through two octaves. Studies: Wolfhart — Book II, Sitt, Mazas, and Sevcik. Repertoire: Graded material from the Baroque and Classic periods.

Music 331S-332S. Violin, Secondary. One or two hours
See Music 131-132.

Music 431S-432S. Violin, Secondary. One or two hours
See Music 321-323.

Music 131-132. Violin. Two or three hours
Problems of left and right hand technique, scales and arpeggios through sixth position. Studies: Kayser, Fiorello, Mazas, Sevcik. Repertoire: Sonatas and solo pieces from the Baroque and Classic periods.

Music 231-232. Violin. Two or three hours
Major and minor scales and arpeggios through three octaves and chromatic scales. Studies: Kreutzer, Sevcik, and Rode. Repertoire: Sonatas and concertos, Handel, Vivaldi, Bach, Mozart, selected Romantic works.

Music 331-332. Violin. Two or three hours
Scales in thirds, sixths, and octaves. Studies: Continued. Repertoire: Sonatas and concertos by Mozart, Spohr, Vieuxtemps, Schubert and Franck; selected solo works of the late Romantic and Contemporary periods.

Music 337. Junior Recital. Zero or one hour

Music 431-432. Violin. Two or three hours
Continue all scales and studies. Repertoire: Beethoven Romances, Bach Solo Sonatas; at least one or more movements of a major concerto.

Music 435-436. String Literature. Two hours
The Baroque Period to the present day with special attention to stylistic detail and ornamentation.

Music 437. Senior Recital. Zero or one hour

Flute, Clarinet, Oboe, Bassoon, and Other Woodwind Instruments.
The course outline is for clarinet study. A similar outline exists for other instruments.

Music 141S-142S. Clarinet, Secondary. One or two hours
Rudiments of tone production and technique. Langenus, Method, Bk. 1. Scales and arpeggios through three flats and three sharps, two octaves. Chromatic scale, three octaves. Weinberger, Sonatine.

Music 241S-242S. Clarinet, Secondary. One or two hours
Langenus, Method, Bk. II. Continue study of tone production and techniques. Selections from Voxman, Concert and Contest Collection. Voxman, Lament and Tarantella. Delmas, Promenade.

Music 341S-342S. Clarinet, Secondary. One or two hours
See Music 141-142.

Music 441S-442S. Clarinet, Secondary. One or two hours
See Music 241-242.

Music 141W-142W. Clarinet. Two or three hours
Rudiments of tone production and technique; Rose, 40 Studies, Bk. 1. Selected studies from Klose Method. Memorize major and minor scales. Voxman, Concert and contest collection; Anderson-Waln, Scherzino.

Music 241-242. Clarinet. Two or three hours
Selected studies from Klose, Cavallini, Rose and Baermann. Bach-Simon, Solos and Duets; Bonade, Modern French Concour Solos; Debussy, Premier Rhapsody; Mozart, Adagio from Concerto for Clarinet.

Music 341W-342W. Clarinet. Two or three hours
Kroepsch, Daily Studies, Bk. I & II. Selected studies from Rose, 40 Studies, Bk. II; Baermann Method, Bks. III & IV; Jean-Jean, 18 Etudes. Webster Concertino; G. Finzi, Five Bagatelles.

Music 347W. Junior Recital. Zero to one hour

Music 441W-442W. Clarinet. Two or three hours
Selections from Masterworks for Clarinet (Schirmed ed.); Perier, Vingt-Deux Etudes; Gabucci Studies. Study of Orchestral Literature. Brahms Sonata, Op. 120, No. 1; Mozart Concerto for Clarinet.

Music 445W-446W. Woodwind Literature. Two hours
Clarinet literature from the various periods with special attention to stylistic detail and ornamentation.

Music 447W. Senior Recital. Zero or one hour

Trumpet, French Horn and Other Brass Instruments.
The course outline is for trumpet study. A similar outline exists for other brass instruments.

Music 141S-142S. Trumpet Secondary. One or two hours
Basic problems of tone production and technique; scales, arpeggios and appropriate graded literature.

Music 241S-242S. Trumpet Secondary. One or two hours
Continuation of 141S-142S.

Music 341S-342S. Trumpet Secondary. One or two hours
See Music 141B-142B.

Music 441S-442S. Trumpet Secondary. One or two hours
See Music 241B-242B.

Music 141B-142B. Trumpet. Two or three hours
Concentration on tone production and style. "C" Transposition, representative etudes and solo literature.

Music 241B-242B. Trumpet. Two or three hours
Tone production as a simple procedure carried into more difficult music, including etudes and solos; transpositions D, Eb, E, F and A.

Music 341B-342B. Trumpet. Two or three hours
Emphasis on the tone, production, style and transposition, including etudes to be transposed in C, D, Eb, E, F and A Trumpet.

Music 347B. Junior Recital. Zero to one hour

Music 441B-442B. Trumpet. Two or three hours
Advanced literature emphasizing style, tone, and transpositions.

Music 445B-446B. Brass Literature. Two hours
A study of the literature, both solo and ensemble, for the principal and related brass instruments with attention to stylistic detail and ornamentation.

Music 447B. Senior Recital. Zero or one hour

Ensembles

Music 151. Chorus. Zero or one hour
Open to all college students; performs major choral works in concert. One rehearsal per week. May be repeated for credit.

Music 152. Choir. Zero or one hour
Open by audition only; performs in chapel, Christmas concert, yearly tour, spring concert, graduation. Limited to forty-nine students; four rehearsals per week.

Music 154. Concert Band. Zero or one hour
Open to all those interested in band music. Two rehearsals per week. May be repeated for credit.

Music 156. Collegium Musicum. Zero or one hour
Open to interested students. A performance group intended to give the student acquaintance with less frequently performed literature. One rehearsal per week.

Music 157. Small Ensembles. Zero or one hour
Instrumental and vocal ensembles varying in size and type according to the needs and interests of the students enrolled. May be repeated for credit.

Music 157-A. Stage Band.

Music 157-B. Brass Ensembles.

Music 157-C. Woodwind Ensembles.

Music 157-D. Percussion Ensemble.

Music 357. Opera Workshop. Zero or one hour
Experience in the standard and contemporary opera repertoire; preparation and presentation of complete operas and programs of excerpts, with costumes and scenery. Admission by audition only. May be repeated for credit.

Theory

Music 161-162. Foundations of Music. Four hours
A combined course in the areas of music theory, history, and literature. Five periods per week.

Music 261-262. Harmony. Three hours
Continuation of Music 161-162 in the area of part-writing and analysis. Advanced chromatic harmony of the middle Romantic period. Keyboard harmony included. Three periods per week. *Prerequisite:* Music 162.

Music 263-264. Ear Training. One hour
Sight singing, ear training, and dictation to be taken concurrently with Music 261-262. Two periods per week. *Prerequisite:* 162.

Music 361-362. Form and Analysis. Two hours
The development of musical forms from small units to large. Study of large scale analytic techniques including those necessary for late 19th and early 20th Century Music. *Prerequisite:* Music 262.

Music 365. Music Arranging. Two hours
Basic techniques of orchestration and arranging. *Prerequisite:* Music 262.

Music 461-462. Counterpoint. Two hours
The vocal counterpoint of Palestrina and the instrumental counterpoint of Bach. *Prerequisite:* Music 162.

Music 463. Theory Seminar. Three hours
An advanced course in music theory, including a study of contemporary practices. *Prerequisite:* Music 362, and permission of the instructor. Offered upon sufficient demand.

Music Education

Music 171-172. String Instruments Class. One hours
Class instruction in String instruments.

Music 173-174. Piano Class. One hour
Class instruction in piano.

Music 175-176. Wind and Percussion Instruments Class. One hour
Class instruction in woodwind, brass, and percussion instruments.

Music 177-178. Voice Class. One hour
Class study for students who are not prepared to study at the level of private applied voice.

Music 373. Elementary School Music. Three hours
Methods and materials in the elementary school. Will include functional ability at the piano keyboard, the fundamentals of music, and library research. (Also Education 373).

Music 374. Secondary School Music. Three hours
Methods and materials for junior and senior high school. Will include research projects. *Prerequisite:* Junior standing in the School of Music or permission of the instructor.

Music 473-474. Conducting. Two hours
Basic techniques of the art of conducting; score reading, both vocal and instrumental; rehearsal techniques; balance and interpretation; organization; survey and study of literature; practical work with ensembles.

Music 475A, B, C, D, E, F, G. Pedagogy. One hour
Techniques and principles of private and class instruction with examination of carefully considered and recommended materials.
A-Organ; B-Piano; C-Voice; D-Strings; E-Woodwind; F-Brass; G-Percussion.

History and Appreciation

Music 191. Introduction to Music. Three hours
A study of musical materials and styles for the liberal arts student with a limited musical knowledge. Not open to music majors or music minors.

Music 192. Introduction to History of American Popular Music. Three hours
A historical approach involving the study of styles and personalities beginning with the origins of jazz and ending with the current trends and concepts of today. Open to all students.

Music 193. Introduction to American Music. Three hours
A study of serious American music from the Pilgrims to the present with emphasis on the music of the 20th century for the liberal art student. Open to all students.

Music 194. Introduction to the History of Church Music. Three hours
The history and function of Western Church music from ancient Judaism through contemporary usage. Open to all students.

Music 393-394. Music History. Three hours
(393) Antiquity through Classic period; survey of literature including outstanding reading and listening.
(394) Romantic period through 20th Century. *Prerequisite:* Music 162 or permission of instructor.

Music 493-494. Two or three hours
Independent study in the area of Music History. Major paper required. *Prerequisite:* Music 393-394.

Music 495-496. Music Research Seminar. Three hours
Independent research on an approved project. *Prerequisite:* Permission of the student's major professor.

Division III:

Health and Physical Education

1. Health 2. Physical Education

Mr. Moore Miss Patridge

Mr. Calitri Mrs. Hacker Mr. Mills

Objectives

1. To give the student a broad view into the field of Health and Physical Education.
2. To develop the student socially.
3. To teach the student physical skills and abilities so that he may enjoy worthwhile activities.
4. To develop an understanding and appreciation of techniques and strategies of sports.
5. To prepare the student for leisure time.
6. To eliminate or diminish stress and worry through exercise and sports.
7. To develop safety skills.

A maximum of eight semester hours of service courses may be credited toward graduation. Physical education majors must take four service courses, and this is the maximum that can be applied to a major.

Students who are preparing to teach in an elementary or secondary school in Kentucky are required by the State Board of Education to complete the following courses: for an elementary school certificate, Health and Physical Education 261; for a secondary school certificate, Health 280.

Requirements For a Major in Physical Education. Thirty semester hours, which must include Physical Education 351 and 421.

Requirements For a Minor in Health Education. Twenty-one semester hours which must include Health 340, but not include Health 280. Courses must be chosen from those listed under Health Education Major.

Requirements for a Major in Health Education. For students choosing to get a teaching certificate, thirty semester hours from the following suggested courses which must include Health 330 and 340, but does not include Health 280: Health 231, 271, 321, 330, 340, 391, 411G, 421G, 431G, 451G, 452G, 481G, 485G and 492.

Requirements for a Major in Community Health. For students choosing not to get a teaching certificate, thirty semester hours from the following suggested courses, and must include Health 311, 340, 421G and 430G: Health 212, 231, 271, 280, 300, 311, 340, 391, 421G, 430G, 431G, 451G, 452G, 471G, 481G, 485G and 492.

Service Courses

111	Beginning and Intermediate Swimming	121W	Team Sports for Women
113	Senior Life Saving	122M	Team Sports for Men
131	Archery and Badminton	135	Tumbling and Trampolining
132	Beginning Golf	141	Folk Dancing
133	Beginning Tennis	142	Social Dancing

The above courses meet the equivalent of two periods a week for one semester hour credit.

1. Health

Health 212. American State and Local Government. Three hours
(See Political Science 212).

Health 231. First Aid and Safety. Three hours
Designed to aid the student in developing an understanding of the basic principles of accident prevention as applicable to the home, the highway, and the school. Special attention is directed to first aid and measures for various injuries and illnesses.

Health 271. Marriage and the Family. (see Sociology 271.) Three hours

Health 280. Personal and Community Health. Three hours
The relation of bodily functions to personal health and grooming and to community and national health.

Health 300. Man and His Environment. Four hours
(See Environmental Studies 100/300).

Health 311. Human Ecology. Three hours
(See Sociology 311).

Health 321. Principles of Health Education. Three hours
A background of health and the development of school health education. Underlying principles of the present day school health program.

Health 330. School Health Practices. Three hours
A course dealing with the primary phases of school health — health instruction, health services, and healthful school environment — and how they can be coordinated into a functional health program.

Health 340. Physiology and Anatomy. Three hours
Basic instruction in the functioning of the cells, organs, and systems of the human body.

Health 391. Principles of Nutrition. Three hours
(See Home Economics 391).

Health 411G. Health Education in the Secondary School. Three hours
The experiences, activities and instruction of secondary students that lead to intelligent self-direction of health behavior.

Health 421G. Community Health. Three hours
The social and cultural factors, the physical environment and the health agencies and services as they relate to the health of the community.

Health 430G. Social Psychology. Three hours
(See Psychology 430G).

Health 431G. Mental Health. Three hours
(See Psychology 431G).

Health 451G. School and Community Health Workshop. Three hours
Reveals the relationship needed between the school and community to promote the total health of the population. Speakers are secured from official agencies, voluntary agencies, professional agencies, sponsored agencies, and other colleges. Small groups are utilized for discussion, field trips and study through audio visual aids.

Health 452G. Abnormal Psychology. Three hours
(See Psychology 452G).

Health 471G. Microbiology. Four hours
(See Biology 471G).

Health 481G. Epidemiology: General Principles. Four hours
(See Biology 481G).

Health 485G. Critical Areas in Health. Three hours
Specific health problems confronting society today with particular reference to secondary age students.

Health 492. Field Experiences in Health. Three hours
A directed field experience in some phase of health, with consideration given to both the needs and interests of the student. Opportunities will be available for practical experiences in the school situation, official health agencies, and voluntary health agencies.

Health 495-496. Problems in Health. One to three hours
Independent study for advanced students only.

Health 511. The School Health Program. Three hours
Administrative arrangements found in school health programs and the utilization of administrative techniques and school personnel in conducting an efficient health program.

Health 541. Scientific Foundations of Health Education. Three hours
A study of the scientific aspects of health as they relate to personal, family, and community health.

Health 551. Readings in Health. Three hours
A course enabling the student to read literature in the area of health, not only to increase his basic knowledge, but to acquaint him with the current trends and issues that are prominent at the time.

Health 592. Environmental Workshop. Three hours
(See Environmental Studies 592).

Health 595. Problems in Health Education. Three hours
Independent study in the field of health. Could include practical field experiences.

2. Physical Education

Physical Education 241. History of Physical Education. Two hours
From primitive man through the present, with particular emphasis on Greek physical education, European systems, and development of physical education in America. Some research into the history of various sports.

Physical Education 261. Health and Physical Education in the Elementary School. Three hours
The role of the classroom teacher in physical education — on the playground, in the gymnasium, and classroom. How to correlate and evaluate. The application of games, movement, exploration, rhythms, and self-testing activities, and screening tests.

Physical Education 271. Sports Officiating. Two hours
Rules and officiating techniques in football, basketball, baseball, and track.

Physical Education 291. Principles of Dance. Two hours
Elementary rhythms, folk, square, social, and modern dance.

Physical Education 301. Coaching Football. Two hours

Physical Education 302. Coaching Basketball. Two hours

Physical Education 303. Water Safety Instruction. Two hours
Prerequisite: Senior Life Saving (113).

Physical Education 304. Coaching Baseball. Two hours

Physical Education 305. Coaching Track and Cross Country. Two hours

Physical Education 317. Organization and Administration of Intramurals. Three hours
Planning, organizing, and directing a program of intramural activities for men and women. Attention is given to activities, awards, officials, finances, publicity, and other factors necessary to consider in administering an intramural program.

Physical Education 320. Adapted Physical Education. Three hours
Health conditions which require the physical education program to be adapted to meet the special needs of the atypical student.

Physical Education 321. Recreational Leadership. Three hours
Leadership techniques in music, social games, arts and crafts, dramatics, camping, nature and sports. Designed to aid students in enriching their own leisure time and to prepare for leadership in teaching, full-time Christian service, and social service.

Physical Education 351. Tests and Measurements in Physical Education. Three hours
Evaluating physical education by the construction and administering of tests. Places emphasis on reliability, objectivity, and validity of tests, and the use of test results, motivation and school marks.

Physical Education 361. Organization and Administration of Physical Education. Three hours
Administration of health and physical education in school. Setting up program, and evaluating results. Emphasis is given to budget and finance, office management, preparing the curriculum, facilities, legal factors, and public relations.

Physical Education 421. Anatomy & Kinesiology. Three hours
An analysis of human motion and its relation to athletic and gymnastic activities; practical application of these principles.

Physical Education 435. Coaching and Officiating Team Sports (Women).
Theory and practice of techniques employed in field hockey, basketball, volleyball, softball, and soccer, with emphasis on methods of teaching.

Physical Education 436. Individual and Dual Sports for Women. Three hours
Theory and practice of techniques employed in archery, badminton, golf, and tennis, with emphasis on methods of teaching.

Physical Education 491. Seminar in Conducting Physical Activities. Three hours
Seminar of the problems involved in the teaching of physical skills in the required program with an opportunity to gain practical experiences.

Physical Education 495-496. Problems in Physical Education. One to three hours
Independent work for advanced students only.

Division IV:

Languages

1. English 2. French 3. German

1. English

Mr. Merchant Mr. Zuger

Mrs. Carter Mr. Stallcup Mrs. Townsend

The general aims of the Department of English are: 1. To guide the student in learning to write clear, coherent, acceptable, and effective English; and 2. To assist the student in broadening his understanding and enjoyment of language and literature, more fully appreciating his cultural heritage, developing a basis for intelligent criticism, and building a foundation for possible future study in the field.

Requirements For a Minor. A minimum of twenty-four semester hours including 111, 112. This must include: six hours of English literature survey; American literature survey 341; three hours of Shakespeare: 371 or 372; and one genre course chosen from 301, 302, 351, 352, 363, 451G, and 461G.

Requirements For a Major. A minimum of thirty semester hours in addition to 111, 112, including the department requirements noted for Minors; three hours of linguistic study: 401G or 421G; and one seminar (an advised 400G course chosen from 411G, 451G, 461G, and 482G). English majors are also advised to take at least six hours of a foreign language.

Requirements For an Area. Forty-eight hours, thirty of which shall satisfy the requirements for a major and including an advanced writing course, a course in literary criticism, and courses in speech or drama.

Students preparing to teach high school English should elect the English major. English minors who expect Department recommendation for teacher training should consult the Department Head about their individual needs for advanced courses.

A general prerequisite for 200 level courses and above is the successful completion of English 111, 112. A general prerequisite for 300 level courses is the successful completion of English 221, 222, or consent of the head of the department.

English 110. Elementary Freshman Composition. Three hours
A course in basic writing skills of progressing complexity beginning with the sentence and ending with the theme. Must be followed by English 111.

English 111. Freshman Composition. Three hours
Writing of descriptive, expository, and argumentative themes and documented papers. Study of the essay as a model and for discussion. Must precede English 112.

English 112. Freshman Composition, continued. Three hours
Longer themes emphasizing critical writing and documentation. Study of prose, fiction, drama, and poetry with concentration on literary form and the interpretation of literature.

English 221-222. Survey of English Literature. Three hours each
From *Beowulf* into the 20th century. The first half includes the Middle Ages and Renaissance and the second starts with the Neo-classical and continues through the Romantic and Victorian periods. Either course may be taken separately and not necessarily in sequence.

English 301. Golden Age of English Drama. Three hours
The development of the English drama from its origins in the Middle Ages through the Renaissance to the closing of the theatres, exclusive of Shakespeare. (Also Drama 301). Offered in alternate years.

English 302. Modern Drama. Three hours
A survey of world drama from Ibsen to the contemporary, emphasizing but not limited to the continental European and in translation where necessary. (Also Drama 302). Offered in alternate years.

English 311. Junior Composition. Three hours
An advanced course which may be taken instead of English 112 to fulfill the college's composition requirement. Assignments will deal either with literature or with issues of contemporary interest. Longer themes emphasizing thoughtful writing and documentation. *Prerequisite:* Junior standing and English 111.

English 312. Sixteenth Century Literature. Three hours
A study of the non-dramatic prose and poetry of the early Renaissance stressing the achievement and influence of figures like Sidney and Spenser. Offered in alternate years.

English 331. English Romantic Period. Three hours
The prose and poetry of the first third of the 19th century, emphasizing the work of Wordsworth, Coleridge, Byron, Shelley, and Keats. Offered in alternate years.

English 332. Victorian Period. Three hours
Major poets and prose writers, emphasizing the contributions of such masters as Tennyson, Browning, and Arnold. Offered in alternate years.

English 341-342. Survey of American Literature. Three hours each
The first half extends from the colonial writers through Whitman and the second from Dickinson to the mid-20th century. Either course may be taken separately and not necessarily in sequence.

English 350. General Linguistics. Three hours
An introduction to the synchronic approach to linguistics, general American dialectology, theories of speech origin, and social, psychological, and applied linguisitcs.

English 351. The English Novel. Three hours
The historical study of the growth of the novel as a form, with selected examples from Defoe through Hardy. Offered in alternate years.

English 352. The American Novel. Three hours
From the "American Renaissance" of the 19th century through the rise of realism to Faulkner and more recent developments. Offered in alternate years.

English 355. Survey of Children's Literature. Three hours
Designed to familiarize the student with books and other library materials suitable for supplementing the curriculum and encouraging recreational reading in the elementary school. (Cannot be used toward humanities general requirement, major, minor, or area in English.)

English 363. Classical Drama in English. Three hours
Major Greek and Roman tragedies and comedies and their enduring relevance and influence. Comment on their social, religious, philosophical, and aesthetic implications. (Also Drama 363). Offered in alternate years.

English 364. Medieval Literature. Three hours
A comparative study of the major works of the European Middle Ages. Emphasis will be placed on the courtly love tradition, the Germanic Epic, and development of the Arthurian Romance. (Also German 364). Offered in alternate years.

English 371-372. Shakespeare. Three hours each
An intensive and critical study of selected plays, focusing on their timeless human, literary, and dramatic qualities. The first half is devoted to the histories and comedies and the second to the tragedies, romances, and "problem" plays. Each course may be taken separately and not necessarily in sequence. (Also Drama 371-372).

English 381. Seventeenth Century English Literature. Three hours
The poetry of the metaphysicals, the cavaliers, Jonson, and Marvell. The prose of Bacon, Burton, Browne, and others. Offered in alternate years.

English 382. Neo-classical English Literature. Three hours
Prose and poetry of the Restoration and 18th century from Dryden through Samuel Johnson. Offered in alternate years.

English 395. Literary Criticism. Three hours
A comparative or historical study of different interpretations of literature. Designed to illustrate how critical reactions vary with time, place, and approach and to help sharpen the student's own powers of literary analysis.

A general prerequisite for 400 level courses is Junior standing.

English 401G. Theory of Grammar. Three hours
A study of the prescriptive and modern descriptive theories of syntax and of both the definitions and uses of "grammar." Required for teachers.

English 402G Advanced Composition. Three hours
For the student who wishes to become a more competent writer. Research papers, factual narratives, argumentation, and "creative" writing are assigned according to the needs and aptitude of the student. Offered in alternate years.

English 411G. Chaucer. Three hours
A study of selected works of Geoffrey Chaucer and his literary milieu in Middle English. Recommended for graduate students. Offered in alternate years.

English 421G. History of the English Language. Three hours
A study of the growth and structure of the English language from the Anglo-Saxon period to the present. Required for teachers and graduate students.

English 451G. Contemporary Poetry. Three hours
American and British poetry, with consideration of ways of reading, criticizing, and writing verse in this century. Offered in alternate years.

English 461G. The Contemporary English Novel. Three hours
Novelists of the twentieth century from Conrad. Emphasis on the formal development of the novel and its psychological explorations in Joyce. *Prerequisites:* English major or consent of the instructor. Offered in alternate years.

English 482G. Milton. Three hours
The English poetry and selected prose of one of the three great figures of English literature, studied within the context of the late Renaissance and the emergence of Puritanism. Recommended for graduate students. Offered in alternate years.

English 490G. Composition for Teachers of English. Three hours
Designed to train teachers of secondary school English composition and to indirectly improve the writing of their students. The instructor will utilize the contributions of his colleagues. Required for certification to teach secondary English.

English 495-496G. Readings in Literature. Three hours each
Intensive individual work, under supervision, in some phase of English, American, or world literature, linguistics, or composition not otherwise covered in the curriculum. *Prerequisites:* Twenty-four hours of English above English 111, 112, and permission of the head of the department.

English 521 through 552 may each be taken more than once providing that the course content is different. The class schedule will designate the specific content covered.

English 521. Advanced Study of English Literature, 500-1700. Three to nine hours
Intensive study of some phase of English literature within this period.

English 522. Advanced Study of English Literature, 1700-Present. Three to nine hours
Intensive study of some phase of English literature within this period.

English 541. Advanced Study of American Literature, 1600-1860. Three to nine hours
Intensive study of some phase of American literature within this period.

English 542. Advanced Study of American Literature, 1860-Present. Three to nine hours
Intensive study of some phase of American literature within this period.

English 552. Advanced Study in Linguistics. Three to nine hours
Intensive study of some phase of linguistics depending on the needs and interests of the student.

English 565. Advanced Problems in High School English. Three hours
Research in problems of literature, language, or composition in secondary school classes including evaluation of literature in the field.

English 566. Research in Problems of Teaching English Literature. Three hours
A thesis, or several studies of methods and materials in junior or senior high school or junior college classes.

English 581. Research Project in Literature, English. Three hours
A thesis on the language, aesthetic, social effects or methodology of teaching a major work of British literature from Anglo-Saxon times to the present.

English 582. Research Project in Literature, American. Three hours
A thesis on the "Americanism" in language, social origin, or methodology of teaching a major work of American literature, from Captain John Smith to the present.

English 599. English Concentration Thesis. Six hours
Under direction of a thesis master and with approval of a departmental committee, preparation of a research or critical thesis on an aspect of literature, language, composition, or the teaching of any of these.

2. French

Mr. Marigold

The Department hopes to provide the basis for an understanding of France and its culture, as well as a basic knowledge of the French language. All students of French are required to attend the language laboratory regularly. Students offering more than one entrance unit in French and students transferring from other colleges should consult the Head of the Modern Language Department before registering for any course in French.

Requirements for a Major. Twenty-four semester hours, including French 341. Thirty semester hours recommended.

Requirements for a Minor. Twenty-one semester hours.

French 111-112. Elementary French. Three hours
Basic French grammar; practice in the oral and written language.

French 201. Elementary French Conversation. One hour
Practice in speaking and understanding standard modern French.

French 211-212. Intermediate French. Three hours
More detailed study of grammatical structure; study of important literary works; individual collateral reading. *Prerequisite:* French 111-112 or equivalent.

French 331. French Civilization. Three hours
The economic, social, and cultural development of France; French contributions to world civilization. May not count toward fulfillment of the language requirement but may be counted on a major or minor. No knowledge of French required. Offered on sufficient demand.

French 341. History of French Literature. Three hours
A chronological survey of French literature with extensive collateral readings. Required of all French majors. *Prerequisite:* Permission of the instructor. Offered on sufficient demand.

French 361-362. Advanced Grammar, Composition, and Conversation.
Prerequisite: Permission of the instructor. Offered on sufficient demand.

French 411-412. The French Novel. Three hours
The history of the French novel from the seventeenth century to the present. *Prerequisite:* Permission of the instructor. Offered on sufficient demand.

French 421. French Poetry. Three hours
A survey of French poetry of the sixteenth to twentieth centuries, with analysis of representative works. *Prerequisite:* Permission of the instructor. Offered on sufficient demand.

French 431-432. The French Theatre. Three hours
Survey of the principal works of the French theatre from Corneille to the present. *Prerequisite:* Permission of the instructor. Offered on sufficient demand.

French 491-492. Honors Program in French
Maximum of four hours per semester; only by permission of Department Head.

French 495-496. Readings in French Literature. Three hours
Open only to students capable of a considerable amount of independent reading. *Prerequisite:* Permission of the instructor.

3. German

Mr. Marigold

The Department provides the basis for an understanding of Germany and its culture as well as a basic knowledge of the German language. All students of German are required to attend the language laboratory regularly. Students offering more than one entrance unit in German and students transferring from other colleges should consult the Head of the Modern Language Department before registering for any course in German.

Requirements for a Major. Twenty-four semester hours, including German 341. Thirty semester hours recommended.

Requirements for a Minor. Twenty-one semester hours.

German 111-112. Elementary German. Three hours
Basic German grammar; simple reading; practice in the oral and written language.

German 211-212. Intermediate German. Three hours
More detailed study of grammatical structure; reading of important literary works; individual collateral reading. *Prerequisite:* German 111-112 or equivalent.

German 331. German Civilization. Three hours
The economic, social, and cultural development of Germany; German contributions to world civilization. May not count as part of the language requirement but may be used as part of a major or minor. No knowledge of German required. Offered on sufficient demand.

German 341. History of German Literature. Three hours
A chronological survey of German literature with extensive collateral readings. Required of all German majors. *Prerequisite:* Permission of the instructor.

German 361-362. Advanced Grammar, Composition. Three hours
Prerequisite: Permission of the instructor. Offered on sufficient demand.

German 364. Medieval Literature. Three hours
(See English 364).

German 411-412. The German Novel and Short Story. Three hours
The development of the German novel and the Novelle from the seventeenth century to the present. *Prerequisite:* Permission of the instructor. Offered on sufficient demand.

German 421. German Poetry. Three hours
Analysis of selected works from the German poetry of the seventeenth to twentieth centuries. Collateral reading and lectures will provide a survey of the field. *Prerequisite:* Permission of the instructor. Offered on sufficient demand.

German 431-432. The German Theatre. Three hours
Survey of the principal works of the German theatre from Lessing to the present. *Prerequisite:* Permission of the instructor. Offered on sufficient demand.

German 441. Goethe. Three hours
Detailed study of *Faust*. Lectures and assigned readings cover the chief works of Goethe and his principal contemporaries. *Prerequisite:* Permission of the instructor. Offered on sufficient demand.

German 491-492. Honors Program in German.
Maximum of four hours per semester only by permission of Department Head.

German 495-496. Readings in German Literature. Three hours
Open only to students capable of a considerable amount of independent reading. *Prerequisite:* Permission of the instructor.

Division V:

Religion and Philosophy

Mr. Matthews Mr. Eickhoff Mr. Jones

Courses in this division are designed to acquaint the student with the Judaeo-Christian tradition and the other great religious traditions of mankind and with the great traditions and disciplines of human thought; to deepen his awareness of himself and of the human community; to cultivate his powers of critical examination and constructive reasoning; and to clarify his understanding of the meaning and direction of human existence.

Studies in religion are especially recommended for students of art, history and literature, and for students preparing for Christian vocations.

Studies in philosophy are especially recommended for pre-professional training for such vocations as the Christian ministry, college teaching, law, journalism, creative writing and art, as well as for students of history, literature and the sciences.

Pre-ministerial Preparation: The American Association of Theological Schools has stated that the college work of students planning to enter the ministry should result in at least the following: 1. Ability to speak and write English clearly and correctly, to think clearly, and to read at least one foreign language; 2. Acquaintance with the world of men and ideas, the world of nature, and the world of human affairs; and 3. A sense of achievement through the mastery of fields of study and through honors work or other independent study. The student is expected to become well grounded in English, philosophy and history, and to gain some background in social studies (especially psychology and sociology), the natural sciences, languages and religion.

1. Religion

Requirements for a Major. The twenty-four hour major, recommended for pre-ministerial students, must include courses 111, 112 and 490, plus Philosophy 491. The thirty hour major may include Philosophy 371.

Requirements for a Minor. Twenty-one semester hours, at least nine of which must be in courses numbered above 300.

Religion 101. Conference Studies. No credit
A study of the books required by the Methodist Church for the local preacher's license. Required of all recipients of ministerial loan-grants who have not yet obtained the license to preach.

Religion 111. Old Testament History, Literature, and Interpretation. Three hours
The history of Israel from the earliest times to the Maccabean Age. Historical and literary criticism and religious significance of the emergence of Judaism.

Religion 112. New Testament History, Literature, and Interpretation. Three hours
Attention to author, date, origin, historical and religious significance. Religion 111 recommended.

Religion 121. Primitive Religions. Three hours
Survey of the origins and characteristics of rites, legends and myths of technologically undeveloped societies.

Religion 127. Archaeology and the Bible. Three hours
Exciting archaeological discoveries, especially those related to the Bible, supplemented by wide reading in books, magazines and newspapers, and class reports, color slides and movies.

Religion 201-202. Readings in the Greek New Testament. Six hours
An inductive approach to koine Greek, recommended especially for the pre-seminary students. Offered alternate years.

Religion 212. The Old Testament Prophets. Three hours
The nature of prophecy and the prophetic movement in Israel from its beginning with Moses to its close with the book of Jonah. Religion 111 recommended.

Religion 231. The Life and Teachings of Jesus. Three hours
The world in which Jesus was born and an interpretation of his messianic consciousness, personality, activities, and teachings. Religion 112 recommended.

Religion 241. Life and Teachings of Paul. Three hours
The world of Paul, his life, teachings, and significance, using his letters as the primary source. Religion 112 recommended.

Religion 311. Introduction to Christian Thought. Three hours
Examination of traditional and contemporary understanding of the Christian faith, with emphasis on the nature of God and of man; the significance of Christ and the Church; the relation of religion to morality; the meaning of Creation and Redemption; and the interpretation of Human Destiny. *Prerequisite:* 112.

Religion 321. Primitive Religions. Three hours
Same course as Religion 121, but with more independent research. For upperclassmen.

Religion 327. Archaeology and the Bible. Three hours
Same as Religion 127 but with additional reading and reports.

Religion 353. Church History. Three hours
The origin and development of the Christian Church from its beginnings through the Reformation. (Also History 353).

Religion 355. World Religions. Three hours
A descriptive account of the faith and practices of present-day world religions, with emphasis on Hinduism, Buddhism, Confucianism, Islam.

Religion 472. Sociology of Religion.
(See Sociology 472G).

Religion 490. Seminar in Religion. Three hours
Intensive study on a special subject, with oral and written reports. Possible topics include The Fourth Gospel, Apocalyptic Literature, Pauline Theology, Wisdom Literature, The Apostolic Period. *Prerequisite:* Advanced standing and permission of the instructor.

Religion 495-496. Readings in Religion. Three hours

Religion 497-498H. Honors. Three hours
(See Philosophy 497-498G).

2. Philosophy

Requirements for a Major. Either a twenty-four or a thirty hour major may be elected. Religion courses 311 and 355 may in some cases be included.

Requirements for a Minor. Twenty-one semester hours.

Philosophy 201. Introduction to Philosophy. Three hours
Both a study of the nature of philosophy, its aims, problems, and methods, and an exercise in philosophizing in which the student clarifies constructively and evaluates critically his own and other understandings of life.

Philosophy 202. Logic. Three hours
Cultivation of rational acuity through an examination of the procedures and limits of rational discourse.

Philosophy 291. Philosophy of Religion. Three hours
An introduction to basic modern concepts, issues, and methods in the philosophical examination of religion.

Philosophy 302. Aesthetics. Three hours
Exploration and cultivation of the sense of beauty through an examination of the nature of artistic production and of the grounds of aesthetic criticism and judgment, including a survey of aesthetic theory. Alternate years.

Philosophy 371. Ethics. Three hours
Cultivation of moral awareness through an examination of human activity, individual and social, with particular reference to the grounds of ethical decision and evaluation. The major theories are examined and related to concrete personal and social problems.

Philosophy 391. History of Western Philosophy I: Ancient and Medieval. Three hours
Philosophical thinking in its cultural context, from its birth through the classical and medieval eras.

Philosophy 392. History of Western Philosophy II: Modern. Three hours
The rise and development of modern culture and its thought-forms, through the nineteenth century.

Philosophy 431. Contemporary Philosophy. Three hours
Twentieth century western thinking and its nineteenth century backgrounds, with particular reference to pragmatism, phenomenology, existentialism, the analytical movement and dialectical materialism. *Prerequisite:* Philosophy 201.

Philosophy 432. Pragmatism and Process Philosophy. Three hours
A critical examination of two major movements in twentieth century philosophy, with particular reference to the thought of Peirce, James, Dewey, Mead, Lewis, Morgan, Alexander and Whitehead. *Prerequisite:* Philosophy 201.

Philosophy 451. Political Theory and Philosophy. Three hours
The nature, scope, methods, development and interrelationships of political and philosophical thought. Analysis of traditional and contemporary theories.

Philosophy 490. Seminar in Philosophy. Three hours
Intensive study of a special topic such as Epistemology, Metaphysics, Plato, Kant. Permission of instructor required.

Philosophy 491. Philosophy of Religion. Three hours
Same course as Philosophy 291, but with additional independent research.

Philosophy 495-496. Readings in Philosophy. Three hours

Philosophy 497-498H. Honors. Three hours

Division VI:

Natural Sciences

1. Biology 2. Chemistry 3. Environmental Studies

4. General Science

5. Home Economics 6. Mathematics 7. Physics

Requirements for an Area. A teaching area in Science shall consist of a minimum of 48 semester hours distributed according to one or two plans: (1) at least 18 hours in Biology, at least 8 hours each in Physics and Chemistry, and at least 7 hours in Mathematics. (2) At least 12 hours each in Physics and Chemistry and at least 11 hours in Mathematics. Science 111 and 112 will not count towards the 48 hour area.

Pre-Professional Programs

Since professional schools vary considerably in their admission requirements, the student is advised to select the professional school he wishes to attend later, and then choose pre-professional courses accordingly. The science faculty should be consulted

before registration in order to assist the student in preparing a course schedule. For details of a specific program, the following faculty members should be consulted.

Dentistry — Dr. Jankovics, Chemistry
Engineering — Dr. Santaram, Physics
Medical Technology — Dr. Kringen, Biology
Medicine — Dr. Myers, Chemistry
Optometry — Dr. Burns, Physics
Pharmacy — Dr. Myers, Chemistry
Veterinary Medicine — Mr. Carter, Physical Science

Combined Degree in Engineering

A cooperative "Three-Two Plan" has been worked out with both the University of Kentucky and the School of Engineering of the University of Southern California in which the student attends Union College for three years pursuing certain pre-engineering courses in addition to a solid program in liberal arts. At the end of the three years upon the recommendation of Union College, he enters either of the cooperating universities as a junior and in two additional years completes all the requirements for the B.S. degree in Engineering. Both the B.A. or B.S. from Union College and B.S. in Engineering from the cooperating university are awarded at the end of the fifth year.

Medical Technology

Union College offers a pre-professional education program for medical technologists composed of academic subjects acceptable to the Board of Schools of Medical Technology (A.S.C.P.) and approved by the Council on Education of the American Medical Association. Upon acceptance and satisfactory completion of the professional year at an accredited medical technology school, the students credits will be accepted at Union College and the baccalaureate degree awarded.

Medicine

The Bachelor of Arts degree will be granted to students who have completed three years of work at Union College and one year of work at any accredited medical school with the provisions stated in the section on Combined Degrees.

1. Biology

Mr. Baker *Mr. Kringen* *Mr. Waer*

Requirements for a Major: Thirty semester hours in biology, 12 semester hours in chemistry, eight semester hours in physics and seven semester hours in mathematics or statistics.

Requirements for a Minor: Twenty-one semester hours in biology.

Biology 121. Introduction to Biology. (4.0) Four hours
An introduction to the structure and function of living systems with emphasis on basic mechanisms and concepts. Intended primarily for majors, minors, and those desiring an intensive introduction to biology.

Biology 231. Animal Biology. (3.4) Four hours
A study of the morphology, physiology, ecology and evolution of the organisms in the animal kingdom. *Prerequisite:* Biology 121.

Biology 232. Plant Biology. (2.4) Four hours
Using the modular approach, the course acquaints the student with the various fields of study in botany. Topics covered include seed development, taxonomy, structure and function, behavior, photosynthesis, respiration and genetics. *Prerequisite:* Biology 121.

Biology 233. Survey of the Plant Kingdom. (2.4) Four hours
An investigation of the diverse forms of plant life from the bacteria to the flowering plants. Emphasis is on life histories, evolutionary relationships and diagnostic characteristics. *Prerequisite:* Biology 121.

Biology 241. Fundamentals of Ecology. (2.4) Four hours
An introduction to ecological studies. The course will acquaint students with the basic interrelationships between organisms and their nonliving environment. Both field and laboratory projects will be undertaken. *Prerequisite:* Biology 121 or General Science 111.

Biology 321, 322, 323. Field Biology. Four hours
A series of courses offered during the summer at the MACCI Biological Field Station on Norris Lake near LaFollette, Tennessee. The courses will vary from year to year. Limnology is usually offered yearly; other possibilities are entomology, forest ecology, and plant taxonomy. *Prerequisite:* Biology 121.

Biology 331. Animal Physiology. (3.3) Four hours
A study of the functions of the organ systems of animals. *Prerequisite:* Biology 231 and Chemistry 112.

Biology 332. Cell Biology. (3.3) Four hours
A study of the structure and function at the subcellular level. Emphasis will be on energy flow, and on synthesis of DNA, RNA, and protein. *Prerequisite:* At least one of three courses — 231, 232, or 234 — and Chemistry 112.

Biology 351. Comparative Vertebrate Anatomy. (2.4) Four hours
A detailed study of the structure of higher vertebrates with special reference to the form and development of systems and organs. *Prerequisite:* Biology 231.

Biology 413. Human Physiology. (3.3) Four hours
A study of the structure and function of the organ systems of the human body. Anatomical studies and physiological experiments are performed in the laboratory. *Prerequisite:* Consent of instructor.

Biology 431. Developmental Biology. (3.3) Four hours
A review of the process of germ cell development, fertilization, and cleavage in both invertebrates and vertebrates, followed by a detailed comparative study of the development of the frog, chick, pig and man. Living material of the frog and chick, and whole mounts and serial sections of frog, chick, and pig are used for study of germ layer formation, histogenesis, and organogenesis. *Prerequisite:* Biology 231 and Biology 332.

Biology 461. Genetics. (3.3) Four hours
Fundamental principles of heredity in plants, animals, and microorganisms. *Prerequisites:* Biology 332 and Chemistry 112.

Biology 471G. Microbiology. (2.4) Four hours
The morphology, physiology, and taxonomy of bacterial and other microorganisms, including brief treatment of algae, protozoa, molds, rickettsiae, viruses, and yeasts. Their roles in industry; the soil, sewage, water, and air; foods; and disease are considered. Cultivation and observation techniques in laboratory.

Biology 481G. Epidemiology: General Principles. (3.2). Four hours
The approach in epidemiology is to acquaint the student with the general principles of epidemiology dealing with the agent, host, and environmental factors, their interrelationships, and their influence on epidemic diseases in the urban society.

Biology 495-496. Special Problems in Biology Four hours
An introduction to the methods of scientific research for the advanced student who has demonstrated ability to do independent work in biology. It will consist of a particular problem chosen after consultation with the instructor. A typewritten and bound report may be required. An examination may or may not be given, depending on the nature of the problem. *Prerequisite:* Consent of the instructor.

Biology 592. Environmental Workshop. Three hours
(See Environmental Studies 592).

Biology 595-596. Research-Investigations in Biology. Four hours
An independent research problem in which the student must demonstrate his ability to employ the scientific method in carrying out an original scientific investigation. A typewritten and bound manuscript will be required. An examination may or may not be given, depending on the nature of the problem selected. *Prerequisite:* Permission of the instructor and approval of the head of the department.

2. Chemistry

Mr. Jankovics Mr. Myers

The objective of the Department of Chemistry is the development in students of (1) understanding of the fundamental principles of chemical science; (2) the ability to apply these principles in both technical and everyday practical ways; (3) the scientific attitude of mind and scientific method of problem-solving; (4) though less tangible, the broader and deeper appreciations and interests related to the role of chemistry in modern life; and (5) the necessary foundation for vocations based directly or indirectly on chemical science.

Requirements for a Major. Thirty semester hours. A student must take the following courses: Chemistry 111-112, 212, 214, 311-312, 411-412. The major is required to take Physics 211-212 and Mathematics 241-242.

For those desiring to concentrate more heavily in the field of chemistry in order to meet requirements of graduate schools and standards set by the American Chemical Society, it is suggested the major be expanded to include some of the following: Chemistry 402, 431, 495-496. Those embarking on this course should obtain approval of the Head of the Department at the beginning of the second year.

Requirements for a Minor. Twenty-one semester hours which should include 111-112.

Chemistry 111-112. General Chemistry. (3.3). Four hours
Designed to develop the cultural values of the stated objectives above and to serve as a foundation for later Chemistry courses. Laboratory work designed to support and elaborate classroom discussions. Second semester laboratory includes qualitative inorganic analysis.

Chemistry 212. Quantitative Analysis. (2.6). Four hours
A study of important volumetric and gravimetric analyses presented from a modern theoretical standpoint. Also an introduction to the study of advanced methods of analysis including some newer instrumentation techniques. *Prerequisite:* Chemistry 112.

Chemistry 214. Topics in Chemistry — Bonding, Equilibrium, Thermodynamics. (3.2). Four hours
A more detailed study of bonding, equilibrium, and thermodynamics for the chemistry major or other pre-professional student. *Prerequisite:* Chemistry 112.

Chemistry 311-312. Organic Chemistry. (3.3). Four hours
A thorough course in the chemistry of organic compounds. Unitized laboratory work designed to illustrate the basic principles of organic chemistry. *Prerequisite:* Chemistry 112.

Chemistry 402. Qualitative Organic Chemistry. (2.6). Four hours
Course presents methods of identification of individual organic compounds and separation and identification of mixtures of complex organic compounds. *Prerequisite:* Chemistry 311.

Chemistry 411-412. Physical Chemistry. (3.3). Four hours
A study of theoretical chemistry as applied to the structure of atoms and molecules; relationships between structure and chemical and physical properties; thermodynamics; kinetics; radiochemistry. *Prerequisite:* Mathematics 241, Physics 211-212.

Chemistry 431. Biochemistry. (3.3). Four hours
A study of carbohydrates, proteins, lipids, vitamins, hormones and enzymes as related to plant and animal life. Included is a discussion of RNA, DNA, genetic code system, intermediary metabolism and integrated metabolism. *Prerequisite:* Chemistry 211-212, 311.

Chemistry 495-496. Special Problems in Chemistry. Four hours
This is an introduction to the methods of scientific research. The course is designed for the advanced student who has demonstrated ability to do independent work in Chemistry. It will consist of a particular problem decided upon after consultation with the instructor. Upon conclusion of the work a typewritten and bound report-thesis may be required. An examination may or may not be given, depending on the nature of the problem. *Prerequisite:* Permission of the head of the department.

3. Environmental Studies Program

The following guidelines apply to those taking a major with an area of emphasis in environmental studies.

1. Completion of a major of 24-30 semester hours as determined by the faculty of the individual discipline.
2. Completion of 48 semester hours of an area with environmental emphasis.
   a. The following courses must be included within the 48 hours:
      Environmental Studies 100
      Environmental Studies 400
      Biology 241, Ecology
   b. Courses taken in the area can be applied to both the area and general college requirements. These courses are to be selected from a list provided by the Director of Environmental Studies. Except for the major, no more than twelve hours in any one discipline may be applied to the area; however, additional courses in a discipline may be taken in the elective hours remaining.
   c. Courses in the major field may be applied to the area or to the major but not to both.
   d. The division of courses within the area will be as follows:

Hours Required Outside of the Major

	Chemistry, Biology and Physics Majors	*All Other Majors*
Physical Sciences Biology, Chemistry Physics	16	24
Social Science and Humanities	24	16
Environmental Studies	8	8
	48	48

3. The student must meet the graduation requirements listed in the Union College Bulletin.
4. Exceptions to the above guidelines can be permitted upon recommendation of a faculty member from the student's major discipline, the director of the environmental studies program and the Academic Dean.

Environmental Studies 100/300. Man and His Environment. Four hours
A multidisciplinary discussion of the effects of man's activities in his environment. Specific problems are as will be identified and their nature explored; field trips will be conducted; independent study projects will be required; additional assignments will be given to students registering for Environmental Studies 300.

Environmental Studies 400. Environmental Research. Four hours
Seminars and group research on selected environmental problems using an interdisciplinary approach. Each student is expected to have a background in a discipline which will be the basis of his approach to specific problems.

Environmental Studies 592. Environmental Workshop. Three hours
For in-service teachers, this course includes a survey of environmental problems, current trends and techniques in environmental education, field trips and related seminars. To be offered at the Environmental Education Center, Cumberland Gap National Historical Park. Summers Only.

Environmental Semester. Sixteen hours
(See Special Programs section).

4. General Science

Mr. Kringen Mr. Carter

Neither a major nor a minor is offered.

Science 111. Biological Science. (3.2). Four hours
An introductory course that deals with fundamental facts and processes of plant and animal life. Careful observation and critical comparison and correlation of such processes as metabolism, growth, reproduction, and heredity are emphasized. The laboratory exercises, illustrative of biological principles, stress thoroughness in dissection and interpretation. This course does not apply as credit on a major in Biology.

Science 112. Physical Science. (3.2). Four hours
An introductory course dealing with the historical development of science as a human endeavor; observations, model building, science as a process, inquiry, great principles in science; man's relationship to earth and his use of technology to solve environmental problems. *Prerequisite:* High school algebra or Mathematics 100.

Science 300. Man and His Environment. Four hours
(See Environmental Studies 100/300).

Science 594. Aerospace Workshop. Three hours
A workshop for elementary school teachers offered during the summer session. It is conducted by the Graduate School in cooperation with the National Aeronautics and Space Administration. Lectures and demonstrations will be given by NASA Space Scientists and Astronauts. Topics covered in science that can be applied to the new problems of space include: astronomy, physics, chemistry, earth science, biology, applications of information, audio-visual aids, teaching methods and demonstration. Each student is required to develop a teaching unit on space science suitable for use in the grade or subject he teaches.

5. Home Economics

Miss Lay

The curriculum is in general home economics with no specialization within the field. The first two years will be accepted by certain institutions as two years toward the Smith-Hughes Program but the four-year program does not provide certification for teaching in a Vocational Home Economics Department. Individual courses may be selected by a student majoring in other departments.

Requirements for a Major. Thirty semester hours and Chemistry 111 and 112.

Requirements for a Minor. Twenty-one semester hours.

SUGGESTED FOUR YEAR HOME ECONOMICS PROGRAM

Freshman Year	*Sem. Hrs.*
English 111-112	6
Social Science	6
Science 111	4
Home Economics 171-172	7
Psychology 111	3
Humanities	3
	29

Sophomore Year	*Sem. Hrs.*
Chemistry 111-112	8
Humanities	6
Social Science	3
Intro. to Education	3
Home Economics 211-212	6
Home Economics 271	3
Home Economics 201	3
	32

Continued

Junior Year	*Sem. Hrs.*
Home Economics 380	3
Home Economics 391	3
Home Economics 451	3
Home Economics 341	3
Humanities	9
Psychology 351	3
Health 280	3
Elective (for minor)	6
	33

Senior Year	*Sem. Hrs.*
Home Economics 401	3
Methods and Materials in Secondary School	4
Student Teaching	10
Home Economics 431	2
Elective (for minor)	15
	34

Home Economics 171. Elementary Foods. Three hours
Elementary principles of food preparation; analysis of basic recipes; developing techniques in the kitchen. First semester every year.

Home Economics 172. Meal Planning and Serving. Three hours
Selecting, purchasing, preparing, and serving meals for various occasions. *Prerequisite:* Home Economics 171 or equivalent. Second semester every year.

Home Economics 201, 202. Fundamentals of Design. Three hours
(See Art 201, 202).

Home Economics 210. Child Development. Three hours
(See Psychology 210).

Home Economics 211. Elementary Clothing. Three hours
Selection of designs and fabrics; use of commercial patterns; techniques in fundamental construction process in making simple garments; use of machine and attachments. First semester every year.

Home Economics 212. Advanced Clothing. Three hours
Design in clothing and tailoring; the principles and practices involved in the tailoring of women's and men's coats and suits. Custom tailoring techniques used. *Prerequisite:* Home Economics 211 or equivalent. Second semester every year.

Home Economics 271. Marriage and the Family. Three hours
(See Sociology 271).

Home Economics 280. Personal and Community Health. Three hours
(See Health 280).

Home Economics 341. Home Management and Family Relationships. Three hours
Philosophy and principles of home management. Study of the mechanics of time, energy, and money management; personal development, and social and family relationships. First semester alternate years.

Home Economics 351. Human Growth and Development. Three hours
(See Psychology 351).

Home Economics 355. Children's Literature. Three hours
(See English 355).

Home Economics 380. Household Equipment. Three hours
A study of the selection, arrangement, operation, care, and demonstration of household equipment. Second semester, alternate years.

Home Economics 382. Consumer Economics. Three hours
(See Economics 382).

Home Economics 391. Principles of Nutrition. Three hours
Diet problems; study of nutrients and their relationships to health; special problem in the field of nutrition required by each student. Second semester every year.

Home Economics 401. Textiles. Three hours
Textile fibers, yarns, and fabrics; their source, production, manufacture, properties and identification. The selection, use, and care of modern textiles. Second semester, alternate years.

Home Economics 431-432. Home Management and Family Relationships Laboratory. Two hours
Each student is limited to four hours' credit. A residence period in the Home Management House is required of seniors majoring in Home Economics. Experience in the application of principles presented in other courses. Admission by permission of the instructor.

Home Economics 451. House Planning and Furnishing. Three hours
Architecture; house plans; building materials; landscaping; planning the interior of the house; observation trips. First semester alternate years.

Home Economics 495-496. Problems in Home Economics. Three hours
The student selects a problem and works under the supervision of the instructor. Designed for the advanced student.

6. Mathematics

Mr. Carter Mr. Simpson Mr. Burns

The objectives of the mathematics curriculum are: (1) to teach mathematical concepts within the framework of logic, and to aid the student in application of these concepts to the solution of physical problems; (2) to give the student an appreciation of the historical role of mathematics in the development of technology; (3) to prepare the student for vocations related to mathematics.

Requirements for a Major. Thirty semester hours consisting of mathematics courses numbered 241 and above. Physics 211 and 212.

Requirements for a Minor. Twenty-one semester hours consisting of mathematics courses numbered 203 and above.

Mathematics 100. Elements of Mathematics. Three hours
Does not fulfill general studies requirements. This course is intended for students with a weak mathematics background. The course includes a review of the real number system and topics selected from the following: sets, logic, graphs, algebraic equations, ratio and percent, probability, exponents and radicals, logarithms, and the definition of trigonometric functions.

Mathematics 111. College Algebra and Trigonometry. Four hours
Basic algebraic and trigonometric definitions and operations; elements of set theory; exponents and radicals; linear, quadratic and trigonometric equations; graphs, functions and inverse functions; use of trig and log tables; radian measure; solution of triangles; probability and permutations. *Prerequisites:* High school algebra or equivalent. Does not count toward major or minor.

Mathematics 203-204. Structure of the Number Systems. Three hours
Historical development of the numeration system from an intuitive to a logical approach based upon set theory, definitions of the basic operations on whole numbers and their properties; extended to integers, rationals, and irrationals; study of why and how of algorithms for all operations; topics in informal geometry.

Mathematics 241. Introduction to Calculus and Analytic Geometry. Four hours
Inequalities, the straight line, conic sections, limits, the derivative, differentiation of algebraic functions, applications of the derivative, extrema, and the antiderivative. *Prerequisite:* Mathematics 111 or permission of instructor.

Mathematics 242. Intermediate Calculus and Analytic Geometry. Four hours
The integral, applications of the integral, logarithmic and exponential functions, trigonometric functions, hyperbolic functions, techniques of integration, L'Hospital's Rule and indeterminate forms, and improper integrals. *Prerequisite:* Mathematics 241.

Mathematics 331. Introduction to Linear Algebra. Three hours
Vector algebra in Euclidean spaces, lines and planes in space, matrices and linear equations, groups, and rings. *Prerequisite:* Math 111 and the permission of the instructor.

Mathematics 332. Linear Algebra. Three hours
Vector spaces, subspaces, linear independence, linear transformations, determinants, inner product spaces, orthogonality, and unitary transformations. *Prerequisite:* Mathematics 331.

Mathematics 341. Advanced Calculus and Analytic Geometry. Four hours
Topics selected from polar coordinates, vectors, solid analytic geometry, partial differentiation, multiple integration, infinite series, and differential equations. *Prerequisite:* Mathematics 242.

Mathematics 382. Probability and Mathematical Statistics. Three hours
Theoretical probability using point set approach; probability as a frequency ratio; probability for finite sample spaces, conditional probability; joint and continuous distributions; binomial distribution; Baye's theorem; statistical applications of probability; theory of sampling and variance. *Prerequisite:* Mathematics 242, which may be taken concurrently, and permission of the instructor. (Also Physics 382).

Mathematics 401. College Geometry. Three hours
Historical introduction to Euclid's elements, logic, points, lines, planes, real numbers and the ruler axiom, separation in the plane and in space, angles and the protractor axiom, congruence, circles, and spheres. *Prerequisite:* Mathematics 241 and permission of the instructor.

Mathematics 402. Functions of a Complex Variable. Three hours
Complex numbers, analytic functions, elementary functions of a complex variable, Cauchy's formula, Liouville's theorem, Laurent's series, residues, contour integration, conformal mapping, physical applications.

Mathematics 403. Introduction to Analysis I. Three hours
Sets and functions, topological ideas, LUB property, real sequences, continuity, mean value theorems, integration, definite integrals, Taylor's theorems, improper integrals, convergence of infinite series, power series, improper integrals with parameter.

Mathematics 404. Introduction to Analysis II. Three hours
Differentiation, inverse functions, implicit function theorems, applications to Geometry and analysis, differential geometry and vector calculus, integration over curves and surfaces, differential forms, theorems of Green, Gauss, and Stokes, field theory, calculus of variations.

Mathematics 481. Differential Equations. Three hours
Differential equations of first order and first degree, differential equations of first order and higher degree, differential operators and linear differential equations, reduction of order. *Prerequisite:* Mathematics 341.

Mathematics 495. Tutorial Work in Mathematics. Three hours
Independent work on topics selected to meet the student's needs. For Mathematics majors only. *Prerequisite:* Senior standing and permission of the instructor. May be offered in either semester.

Mathematics 531. Newer Concepts of Mathematics for Elementary Teachers. Three hours
Same course as Math 203, but with additional work required for graduate students.

Mathematics 532. Newer Concepts of Mathematics for Elementary Teachers. Three hours
Same course as Math 204, but with additional work required for graduate students.

7. Physics

Mr. Burns Mr. Santaram

The general objectives of the physics curriculum are: 1. to develop an understanding of physical phenomena and the methods of physical experimentation; 2. to encourage capable students to consider careers in science or engineering.

Requirements for a Major. Thirty semester hours consisting of Physics numbered 211 or above. Chemistry 111-112.

Requirements for a Minor. Twenty-one semester hours consisting of Physics numbered 211 or above. Chemistry 111-112.

Physics 111-112. General Physics. (3.2). Four hours
Mechanics of motion and equilibrium; properties of solids, liquids and gases; thermal phenomena; wave motion and vibrations; electricity and magnetism; optics; topics in modern physics. Does not count toward major or minor. *Prerequisite:* Mathematics 111.

Physics 211. Mechanics, Heat, Wave Motion, and Sound. (3.2). Four hours
Mechanics of solids, liquids, and gases; laws of thermodynamics; kinetic-molecular theory; vibrating bodies; standing waves; Doppler effect. *Prerequisite:* Mathematics 241, wbich may be taken concurrently.

Physics 212. Electricity and Magnetism, Light and Nucleonics. (3.2). Four hours
Laws of Coulomb, Faraday, Ampere, Ohm, Joule, and Lenz, electronmagnetic theory; lenses, prisms, and mirrors; polarization; photo-electric and Compton effects; nuclear energy; waves and corpuscles; relativistic effects. *Prerequisite:* Physics 211. Satisfies all specific objectives listed.

Physics 311. Heat and Thermodynamics. (3.2). Four hours
Thermometry and Calorimetry; ideal gas laws; changes of state; equations of state; black body radiation; reversible and irreversible processes; laws of thermodynamics; Fourier Series and heat conduction; enthalpy and entropy; heat engines; adiabatic and isothermal processes; kinetic theory of gases and liquids. *Prerequisites:* Physics 212 and Math. 241, which may be taken concurrently.

Physics 312. Electricity and Magnetism. (3.2). Four hours
Electric charges, forces, fields and potential with associated magnetic forces and fields; dielectric theory; capacitance, inductance, resonance, oscillation; series, parallel DC and AC circuits; measuring instruments; thermo-devices electromagnets; motor and generator principles; transformers; Maxwell's equations and electromagnetic waves. *Prerequisites:* Physics 212 and Math. 241.

Physics 382. Probability and Mathematical Statistics.
(See Mathematics 382).

Physics 401. Physical Optics. (3.2). Four hours
Electromagnetic spectrum; wave propagation and superposition; standing waves; interference; diffraction; absorption; dispersion; polarization; double refraction; theory of selected optical instruments. *Prerequisites:* Physics 212 and Math. 241.

Physics 410, 411. Theoretical Mechanics. Three hours
Statics, Kinematics and Dynamics of particles and rigid bodies; centroid, moment and product of inertia; laws of motion, force, mass, momentum and impulse; work, power, energy and potential; motion of a particle in uniform and simple radial fields; holonomous mechanical systems and equations of Lagrange and Hamilton. Three hours' credit per semester. *Prerequisites:* Physics 212 and Math 241.

Physics 412. Atomic and Nuclear Physics. Three hours
Optical spectra; distribution; electromagnetic radiation; x-ray spectra; natural and induced radioactivity; isotopes; electron optics, photoelectric phenomena and wave and particle theories; oscilloscope, spectroscope, spectrometer, spectrograph, radiation counters and particle accelerators; fission, fusion and thermonuclear energy. *Prerequisites:* Physics 212 and Math. 241.

Physics 495-496. Three hours
Independent work on topics selected to meet the student's needs. *Prerequisite:* Permission of the instructor. For Physics majors only.

Division VII:

Social Science

1. Business 2. Economics 3. History

4. Political Science 5. Psychology 6. Sociology 7. Social Work

1. Business

Miss Milliken Mr. Hacker Mrs. Allen Mr. Newport

Objectives:

1. To develop skills and knowledge useful for a career in business.
2. To train business teachers and encourage graduate study.
3. To develop an understanding of the place of business in everyday living.

Requirements for a Major in Accounting. Twenty-four semester hours in Accounting. (Not for teachers).

Requirements for a Major in Business Administration. Thirty-six semester hours including eight hours in Accounting, Business 111 (or equivalent), 112, 352, 411 or 412, and Economics 431 or 342. (Not for teachers).

Requirements for a Major in Business Education. Thirty semester hours including Business 111 (or equivalent), 112, 191, 192, 261, 301 or 302, and Economics 341 or 342. A thirty-six hour major in Business-Secretarial Practice shall include twelve hours in Secretarial Practice courses. A thirty-six hour major in Business-Accounting shall include twelve hours in Accounting. In addition the student must meet the requirements for a Provisional High School Certificate.

Requirements for a Minor in Accounting. Twenty-one semester hours in Accounting.

Requirements for a Minor in Business. Twenty-one semester hours including Business 111, or equivalent, 112, and Business 191.

Requirements for a Minor in Secretarial Practice. Twenty-one semester hours including Business 111, 112 or equivalent. Business 121, 122 and 331.

Requirements for an Area in Business. Forty-eight semester hours, including twenty-four hours in Accounting, six hours in Business law, and six hours in Economics, including Economics 341 or 342.

Requirements for an Associate of Science Degree. An Associate of Science Degree in Office Practice or in Accounting will be granted to any student who completes two years of college and who meets the following requirements.

1. Sixty-four semester hours, including forty-eight hours in Business subjects.
2. An average scholastic standing of 2.00.
3. No grade below "C" in Business.
4. Completion of one of the following programs.

Office Practice

Course	*Hours*
Freshman English	6
Typewriting	6
Shorthand	6
Introduction to Business	3
Business Mathematics	3
Accounting	3
Office Machines	3
Business Correspondence	6
Office Practice	3
Office Management	3
Consumer Economics	3
Business Internship	3
Business Electives	6
General Electives	10
Total	64

Accounting

Course	*Hours*
Freshman English	6
Typewriting	6
Introduction to Business	3
Accounting	15
Business Mathematics	3
Office Machines	3
Data Processing	3
Business Law	3
Business Correspondence	3
Principles of Economics	3
Business Internship	3
Business Electives	3
General Electives	10
Total	64

Adjustments in these programs may be made with the consent of the Head of the Department of Business.

Business 111-112. Typewriting. Three hours
A student with one or more high school units in typewriting cannot take Business 111 for credit.

Business 121. Elementary Shorthand. Three hours
Principles of Gregg Shorthand, Diamond Jubilee Series.

Business 122. Intermediate Shorthand. Three hours
Continuation of Business 121.

Business 151. Introduction to Business. Three hours
Forms of business ownership, marketing, personnel management, finance, and government regulations.

Business 171. Business Mathematics. Three hours
Fundamental processes involving percentage, interest, discount, payroll, taxes, and financial statements. Second semester.

Business 191-192. Principles of Accounting. Three hours
Procedures in journalizing, posting, financial statements, adjusting and closing entries, controlling accounts, and the voucher system.

Business 221. Advanced Shorthand. Three hours
Emphasis placed on speed in taking dictation and in transcribing notes. *Prerequisites:* Business 122 and 112 or equivalent. Offered on sufficient demand.

Business 261. Office Machines. Three hours
Skill building in the use of common office machines, including the adding machine, calculator, comptometer, posting, duplicator, and keypunch. *Prerequisite:* Business 111 or equivalent.

Business 272. Principles of Marketing. Three hours
(See Economics 272).

Business 281. Data Processing. Three hours
(See Computer Science 281, formerly Business 381).

Business 301-302. Business Correspondence. Three hours
Essentials of mailable business correspondence.

Business 311. Salesmanship. Three hours
The salesman's training and his responsibility to the consumer. Second semester.

Business 321. Payroll Tax Accounting. Two hours
The Social Security Act anu other laws, relating to the payment of wages and salaries, the preparation of state and Federal tax returns, and the use of data processing in payroll accounting. *Prerequisite:* Business 192.

Business 331. Office Practice. Three hours
The development of office proficiency. *Prerequisites:* Business 112 or equivalent. Offered on sufficient demand.

Business 351. Office Management. Three hours
Office building, equipment, personnel supervision, control of office activities.

Business 352. Principles of Management. Three hours
The development of organization plans and policies, development of industrial relations, management operation with emphasis on skills and techniques of leadership.

Business 361. Insurance. Three hours
Insurance contracts and the fields of insurance including fire, marine, casualty, social, disability, life, and property.

Business 383. Introduction to Computer. Three hours
Study of the use and function of 1130 computer and auxiliary equipment. *Prerequisite:* Business 381.

Business 391. Intermediate Accounting. Four hours
Accounting statements, working capital items, investments, corporate capital, statement analysis. *Prerequisite:* Business 192.

Business 392. Advanced Accounting. Four hours
Accounting for partnerships, joint ventures, installment sales, consignments, home office and branch units, consolidated income statements, balance sheets, and surplus statements. *Prerequisite:* Business 391.

Business 401. Statistics. Three hours
(See Economics 401).

Business 402. Investments. Three hours
(See Economics 402).

Business 411-412. Business Law. Three hours
Laws dealing with contracts, agency, employment, bailment, transportation, real and personal property, leases, and bankruptcy.

Business 421. Cost Accounting. Three hours
Methods of assembling cost data for materials, labor, and overhead consumed in a manufacturing enterprise. *Prerequisite:* Business 391. Second semester.

Business 491. Auditing. Three hours
Verification, analysis and interpretation of accounting records. A complete audit practice set is included. *Prerequisite:* Business 391.

Business 492. Income Tax Accounting. Two hours
Practice in preparing returns for individuals, partnerships, and corporations under the Federal Income Tax law. *Prerequisite:* Business 192.

Business 495-496. Special Problems in Business. Three hours
Independent projects for advanced students. *Prerequisite:* Permission of the head of the department.

The following courses may be counted as Business:

Economics 341-342. Principles of Economics.

Economics 362. Principles of Finance.

Economics 372. Labor Economics.

Economics 382. Consumer Economics.

Economics 392. Money and Banking.
Any six semester hours of Computer Science.

2. Economics

Mr. Newport

Requirements for a Minor in Economics: Twenty-one semester hours, including Economics 341 or 342. No more than six hours of inter-departmental courses may be counted on the minor.

Economics 241. American Economic Development. Three hours
(See History 241).

Economics 272. Principles of Marketing. Three hours
An analysis of marketing functions and methods relating to producer, middleman, and consumer.

Economics 281. Current Socio-Economic Problems. Three hours
(See Sociology 281).

Economics 341-342. Principles of Economics. Three hours
Elementary economic theory of prices, national income, production, and employment.

Economics 362. Principles of Finance. Three hours
Basic principles of finance including monetary and credit systems, tbe demand for funds in the capital market, factors affecting the supply of funds, and monetary and credit policies.

Economics 372. Labor Economics. Three hours
The labor market, wage and labor problems and theories, development of labor unions and wage and labor policies.

Economics 382. Consumer Economics. Three hours
The role of the consumer in handling his money. (Also Home Economics 382).

Economics 392. Money and Banking. Three hours
National Banking system, nature and functions of money, the importance of credit relation of money and credit to prices, bank deposits, and loans. *Prerequisite:* Economics 341 or 342. First semester.

Economics 401. Statistics. Three hours
A study of the mathematics involved in statistical analysis and the effective use of statistical data in decision making.

Economics 402. Investments. Three hours
Public and corporate securities, security markets, investment policies and tax problems. *Prerequisites:* Economics 341 or 342.

3. Computer Science

Mr. Hacker

Requirements for an Associate of Science Degree. An Associate of Science Degree in Computer Science will be granted to students who complete the following two-year program with an average scholastic standing of 2.00 or better.

Freshman Year

Course	*Hours*
Freshman English	6
Principles of Accounting	6
Data Processing	3
Algebra and Trigonometry	4
Typewriting	3
Programming — Fortran	3
Programming — RPG	3
Economics	3
Extra hour for Interim course	1
Total	32

Sophomore Year

Course	*Hours*
Accounting	2 to 4
Programming — Cobol or Assembler	3
Business Law	3
Systems Analysis	3
Internship	10
Electives	10 to 8
Extra hour for Interim course	1
Total	32

Computer Science 281. Data Processing. Three hours
Introduction to the operation and application of data processing equipment.

Computer Science 284. Programming — Fortran (Formula Translation). Three hours
A study of the Fortran IV programming language on the IBM 1130 computer including evaluation, flowcharting, and solution of problems that are adaptable to business and/or mathematics.

Computer Science 285. Programming — RPG (Reporting Program Generation). Three hours
A study of the RPG programming language on the IBM 1130 computer oriented toward problems and reports related to business applications.

Computer Science 286. Programming — COBOL (Common Business Oriented Language). Three hours
A study of COBOL, a high level programming language which is adaptable to most business applications of any magnitude.

Computer Science 287. Programming — Assembler. Three hours
A study of Assembler programming, which is a basic machine language. Students will also learn basic computer concepts and internal machine operations.

Computer Science 288. Systems Analysis. Three hours
A study in the analysis and organization of a system which can be adapted to a complete practical application. Students must be able to utilize concepts learned in the related computer science courses to accomplish this.

Computer Science 289. Internship. Ten hours
Students will work in a business enterprise where they can apply the principles and skills they have learned.

History and Political Science

Mr. Bradley Mr. Lindley Mr. McCullen

Mr. Oxendine

Objectives: to inform the student of the principal historical developments of the past for the purpose of assisting him to comprehend the conditions of the present world; and to enable him to promote his personal welfare and that of society.

Pre-Law

Most law schools require applicants to take the national Law School Admission Test either as a primary requirement or for those with minimum academic records. The Association of American Law Schools recommends a program of broad liberal education including work in the following fields: English, history and political science, mathematics, economics, accounting, foreign language, and philosophy. At Union the student should follow the general curriculum for his two years. The last two years may be planned with the aid of his advisor.

4. History

Requirements for a Major in History. Thirty semester hours, of which not more than eighteen hours shall be in United States History.

Requirements for a Minor in History. Twenty-one semester hours, of which from six to twelve hours must be in United States History.

History 111. American History Three hours
American history from colonial beginnings to 1848.

History 112. American History. Three hours
American history from reconstruction to 1928.

History 113. American History. Three hours
History of United States since 1928.

History 221. Kentucky History. Three hours
Kentucky from colonial times to the present.

History 241. American Economic History. Three hours
Economics history of the nation. (Also Economics 241).

History 271. (Formerly 371). U.S. History — 1848-1877. Three hours
A study of the Middle Period of American History covering the antebellum years, the great Civil War and the Post-war era.

History 273. Black History in United States. Three hours
A survey of black history from the introduction of slavery in the Colonial Period to the present time.

History 283. United States Social History Since 1865. Three hours
The New South; the last frontier; the urban impact on rural life, the church and education; the labor movement and the new immigration; the lost generation; the impact of the depression and World War II on social institutions.

History 321. Latin America. Three hours
The colonial period.

History 322. Latin America. Three hours
Mexico and the Caribbean nations.

History 331. *Modern European History.* Three hours
The history of Europe from the Renaissance through the era of Metternich.

History 332. Modern European History. Three hours
The history of Europe from the era of Metternich to 1939.

History 341. Modern Britain to 1900. Three hours
History of Britain from 16th Century to 1900.

History 353. Church History.
(See Religion 353).

History 361. The American Frontier. Three hours
Western problems of independence; Appalachia to the Mississippi; the Great Plains, Texas and Oregon; the Indian barrier; the fur trade, gold, and longhorns; the role of the Frontier in American democracy.

History 391. United States Constitutional History to 1865. Three hours
Our British heritage; contributions of the Colonial, Revolutionary, and Confederation eras; the constitution and growth of judicial review; factors which have contributed to the evolution of our federal system of government.

History 392. United States Constitutional History Since 1865. Three hours
The impact of the post-bellum, populist, Progressive, New Deal, and "Warren Court" eras on constitutional development; the effect on active dissident intervention on behalf of civil liberties.

History 411. Medieval Civilization. Three hours
A history of Europe from the collapse of Rome to the Renaissance.

History 433. Imperial Russia. Three hours
Russia's history from the 17th century to 1917.

History 434. The Soviet Union. Three hours
The rise of the Soviet state and its history to the present.

History 442G. Britain in the Twentieth Century. Three hours
The history of Britain since 1900.

History 445G. Contemporary International Problems.
(See Political Science 445G).

History 450G. Recent European History. Three hours
History of Europe since 1939.

History 451G. The Ancient Near East. Three hours
The civilizations of the Egyptians, Babylonians, Hittites, Assyrians, and Hebrews; the sea kingdom of Crete; the Greek city states versus Persia; classical Greece to 330 B.C.

History 452G. The Roman World. Three hours
The rise and decline of the republic; conquests; the Principate; Augustan Society; imperial despotism and military anarchy; rise of Christianity and the decay of Rome.

History 461G-462G. American Diplomacy.
(See Political Science 461G-462G).

History 490G. Seminar in Research. Three hours
Gathering and criticism of data; bibliographies and aids; problems in historiography; composition analysis, and the final monograph.

History 495-496. Specialized Reading in History. Three hours
Designed for seniors majoring or minoring in history. Intensive reading in the field of the individual's special interest.

History 521. American Colonial Culture. Three hours
The background; travel, everyday life, and intellectual pursuits; economic enterprises: — capitalism, commerce, household industries; the laborer and colonial craftsman; and frontier agriculture.

History 531. American Revolutionary Era. Three hours
The background of the Revolution; Continental Congress and the Confederation at work; internal problems and strife; military and naval events; foreign relations; the road to final independence and peace.

History 541. The Jacksonian Era. Three hours
An intensive study of the political, diplomatic, economic, and social history of the United States from 1828 to 1848; the philosophy of Jacksonian democracy.

History 551. Seminar in the Civil War and Reconstruction Era. Three hours
Independent study and reports on selected topics supplemented with class lectures and discussion.

History 582. America in the Age of Industrialism. Three hours
An inquiry into American economic development, social conflict, and intellectual and constitutional history, from 1867 to 1914.

History 583. Recent American History. Three hours
Selected topics on the nation's history since 1900.

History 595. Advanced Specialized Readings in History. One to three hours

History 599. Thesis. Six hours

5. Political Science

Requirements for a Major in Political Science. Thirty semester hours.

Requirements for a Minor in Political Science. Twenty-one semester hours.

Political Science 111. American National Government. Three hours
The structure and function of our national government, political parties and the obligations of the citizen; public administration; the functions of the three branches of national government.

Political Science 212. American State and Local Government. Three hours
The organization of the state government; state government at work; relationships between the states and government at the national level; local government in counties, small towns, and the large municipalities.

Political Science 221. Latin American Politics. Three hours
A survey of the governments and politics of Latin America.

Political Science 241. International Relations. Three hours
Conflicts, international law, diplomatic practices, and the art of negotiation; the forces of anarchy, violence, colonialism, and nationalism; the challenge of Communism, and the defense of democracy; international organizations.

Political Science 322. Government and Politics in Mexico and the Caribbean. Three hours
An analysis of government and political problems in contemporary Mexico and the Caribbean.

Political Science 342. Public Administration. Three hours
The executive branch of our national government at work; the providing of public services; the interaction of policy making and policy execution.

Political Science 351. Political Parties. Three hours
The rise, organization, methods, and place of the major and minor political parties in the history of the nation. An intensive study of political leaders, platforms, political issues and campaigns to the present time.

Political Science 445G. Contemporary International Problems. Three hours
A study of selected problems in international relations arising from the world changing political, economic, and social forces in western society.

Political Science 461G. American Diplomacy. Three hours
A study of American Diplomacy from pre-Revolutionary days to 1898. (Also History 461G).

Political Science 462G. American Diplomacy. Three hours
A study of American Diplomacy in the twentieth century. (Also History 462G).

Political Science 471. Political Theory and Thought. Three hours
The nature, scope, and methods of political science; development of political thought from ancient to modern times; the philosophy of the ideological variations; the democratic concept of the funciton of government.

Political Science 481G. Comparative Government. Three hours
Attention is given to the political heritage, governmental structure, national administration, and social institutions of governments which are illustrative of the different types.

Political Science 495-496. Readings in Political Science. One to three hours
A course designed to allow specialized and independent reading in the field of the student's interest. Open only to Seniors.

Behavioral Sciences

Psychology *Sociology* *Social Work*

6. Psychology

Mr. Mays *Mr. Elder* *Mr. Childs*

Requirements for a Major: Thirty semester hours.

Requirements for a Minor: Twenty-one semester hours.

Objectives: Courses in the psychology curriculum provide learning experiences in three major areas: 1) a focal point in the liberal arts tradition; 2) preparation for graduate studies in psychology; 3) collateral experiences to support vocational and occupational preparation in social service areas.

Psychology 111. Introduction to Psychology. Three hours
Emphasis on the study of human behavior and the ability of the individual to make adjustments to his environment. First and second semesters.

Psychology 210. Child Development. Four hours
Emphasis on recent child development theories with laboratory experience on a one to one ratio basis.

Psychology 245. Statistics for Behavioral Sciences. Three hours
An introductory course to prepare students to better understand the scientific analysis of psychological and sociological phenomena. Concepts and principles of descriptive and inferential statistics. (Also Sociology 245).

Psychology 351. Human Growth and Development. Three hours
Basic concepts for understanding the development of the child and the adolescent. Includes observation. First and second semesters.

Psychology 361. Psychology of Learning. Three hours
Basic concepts and principles of learning with emphasis upon human and animal laboratory studies.

Psychology 401G. Introduction to Counseling and Guidance. Three hours
Educational, sociological, and psychological foundations of counseling and guidance in schools, colleges and related service oriented agencies. Essential counseling and guidance services, policies, practice and procedures.

Psychology 402G. Counseling Theories and Techniques. Three hours
Basic theories, types, and techniques of counseling. Practice in individual and group techniques of interviewing. *Prerequisite:* Psychology 401G (also Education 401G) or permission of the instructor.

Psychology 411G. Educational Psychology. Three hours
Basic concepts related to mental development, appraisal and diagnosis, and learning theory applicable to educational practices.

Psychology 430G. Social Psychology. Three hours
Major emphasis is on problems involved in human relations. Designed to help the individual adjust to various groups and to acquaint him with some of the techniques of leadership by which he may help to mold group thought and action. (Also Sociology 430G).

Psychology 431G. Mental Hygiene. Three hours
Factors determining the development of personality in the individual; principles of mental health and problems involved in the dynamics of human adjustment. (Also Sociology 431G).

Psychology 441G. Measurement and Evaluation. Three hours
(See Education 441G).

Psychology 452G. Abnormal Psychology. Three hours
Mental disorder, changing conceptions of normality, the more common forms of mental disorders, their psychological interpretation, and the principles of effective mental hygiene and psycho-therapy.

Psychology 460G. Theories of Personality. Three hours
Nature of personality structure and dynamics. Classical psychoanalysis, social psychological, and stimulus-response theories included.

Psychology 461G. History and Systems of Psychology. Three hours
Origins of psychological thought within science and philosophy, tracing the development of systems and theories within German, British, and American psychology.

Psychology 490G. Theories of Learning. Three hours
Basic fundamentals of learning theory as formulated by such theorists as Thorndike, Pavlov, Guthrie, Skinner, and Hull. Attention is given to the empirical support of various theories.

Psychology 495-496. Problems in Psychology. Three hours

Psychology 525. Psychology of Reading. Three hours
(See Education 525).

Psychology 595. Advanced Problems in Psychology. Three hours

7. Sociology

Mr. Eickhoff Mr. Bryant Miss Pease Mrs. Stead Mr. Mosley

Objectives: Courses in the sociology curriculum provide a scientific analysis of social behavior and social organization designed to satisfy the needs of three kinds of students: 1) those who intend to pursue graduate study in sociology leading to professional careers in teaching, research or administration; 2) those who wish to use sociology as background for certain occupations; and 3) those who wish to use work in sociology as the focal point in a liberal education.

Requirements for a Major in Sociology: Thirty semester hours, including Sociology 131.

Requirements for a Minor in Sociology: Twenty-one semester hours, including Sociology 131.

Sociology 131. Introduction to Sociology. Three hours
The social interaction of persons and groups; man's cultural heritage and social nature; analysis and principles of group life; forms of collective behavior; the process of socialization; social structure, interaction and reorganization, including race relations and social class; a variety of social institutions; the family, education, religion; the economy, and politics; social change.

Sociology 221. Introduction to Anthropology. Three hours
A survey of the archaeological and biological history of mankind as it relates to the development of man in his culture, with comparisons drawn between the cultures of primitive people and Western Civilization.

Sociology 245. Statistics for Behavioral Sciences. Three hours
(See Psychology 245).

Sociology 271. Marriage and the Family. Three hours
Background experiences in the lives of young people leading up to courtship and marriage; the establishment and functioning of the home, with related biological and social factors. Emphasis upon changing attitudes toward family relationships, some of the problems involved, and suggested solutions. (Also Home Economics 271).

Sociology 281. Current Socio-Economic Problems. Three hours
Scientific understanding of social problems; problem areas in contemporary American society; types of personal disorders and role impairment; the influences of social change on the structure of society. Attention is also given to the question of why certain forms of deviance become defined as social problems. (Also Economics 281).

Sociology 311. Human Ecology. Three hours
Population distribution, growth, and composition, and its relevance to current economic, social, and political problems.

Sociology 341. Methods of Behavioral Sciences Research. Three hours
Techniques of behavioral sciences research, including survey design and the collection, analysis, and interpretation of data. Lecture and laboratory.

Sociology 342. Research Design. Three hours
Supervised research planning with emphasis on delimiting an area of research; designing instruments, and planning for data collection and analysis.

Sociology 345. Appalachian Semester Orientation Seminar. Three hours
An introduction to Appalachian culture, including an introduction to the nature of dialects, analyzed from the viewpoint of linguistics and with reference to dialects of Appalachia.

Sociology 349. Economics and Appalachian Poverty. Three hours
A theoretical and empirical study of the economics of poverty in Southern Appalachia with special emphasis on the major economic bases; including an examination of pertinent historical and geographic characteristics.

Sociology 361. Social Welfare as a Social Institution.
(See Social Work 361).

Sociology 371. Social Institutions. Three hours
An examination of the structure and function of social institutions, with primary orientation within the American milieu. Particular emphasis on socialization, stratification, social change, and relations among institutions.

Sociology 381. Minority Groups. Three hours
A social scientific study of the origin and organization of minorities and their effect on society, with particular emphasis on minorities in the United States. (Also Social Work 381).

Sociology 382. Correctional Services. Three hours.
(See Social Work 382).

Sociology 421G. Rural and Urban Sociology. Three hours
Comparative and interrelated study of urban and rural life considering physical, institutional, social and economic factors of modern life in cities and in the countryside.

Sociology 422G. The Southern Appalachian Region. Three hours
A theoretical and empirical analysis of the cultural and social characteristics of the Southern Appalachian Region from an institutional point of view.

Sociology 430G. Social Psychology.
(See Psychology 430G).

Sociology 431G. Personality and Social Adjustment.
(See Psychology 431G).

Sociology 441G. Cultural Anthropology. Three hours
Principles and methods of anthropology applied to modern and primitive societies. A cross-cultural survey and analysis of social institutions, religion, art, beliefs, values and languages of people in industrial and non-industrial societies. A critical analysis of leading theoretical ideas in the field.

Sociology 460G. Sociological Theory. Three hours
The major theories which have proved useful in investigating the nature of society are examined as cultural products, ideologies, and scientific models. Special attention is given to major figures such as Comte, Durkheim, Weber, Merton, C. Wright Mills, White, and Sorokin in the emergence and convergence of their theoretical development. Lecture and discussion in a seminar setting.

Sociology 461G. Criminology. Three hours
A theoretical and empirical approach to crime and delinquency. A general survey of juvenile delinquency, corrective institutions, and crime prevention programs.

Sociology 472. Sociology of Religion. Three hours
A sociological analysis of religious belief systems utilizing the comparative or cross-cultural approach; social aspects of religion and religious aspects of society; the impact of social and ecological forces upon religious institutions; social origins of religions and denominations and the role of religion in social control and social change.

Sociology 495-496. Problems in Sociology. To be arranged
Designed for advanced students who wish to do independent work on a specific problem or to implement a research design in sociology. *Prerequisite:* Permission of instructor.

Sociology 511. Educational Sociology.
(See Education 511).

Sociology 595. Directed Research. To be arranged.
Designed for advanced students who wish to design and implement research on a specific problem in sociology.

8. Social Work

Mr. Neudecker Mr. Mann Mr. Tremblay

Objectives: To provide a series of educational experiences which will: 1) permit the student to commence with a broad orientation to the field, serving as an entry to beginning social work practice; 2) enhance admission to graduate school; 3) develop an awareness of participatory democracy for purposes of useful citizen activity.

Union College has a compact relationship with the Raymond A. Kent School of Social Work, University of Louisville, for the purpose of securing graduate credit in connection with certain other work done at Union College by students in the social work major. Description of program for Certificate of Advanced Study in Social Work is in the Special Programs Section, and additional information may be obtained from faculty members.

Requirements for a Major in Social Work: A major will consist of thirty semester hours, including Social Work 361, 371, 372, 391, 392, 460G; six hours of 300-400 level electives within the Social Work curriculum; Psychology 210, Sociology 245, and Sociology 341 or 342. It is recommended that students majoring in Social Work also do concentrated study in psychology, sociology, political science and economics. A list of recommended electives is available from the Social Work Department.

Social Work 171. Fields of Social Work. Three hours
An introduction to Social Work, utilizing agency staff and clientele to develop a philosophy of service.

Social Work 271. Marriage and the Family. Three hours
(See Sociology 271).

Social Work 345. Appalachian Semester Orientation Seminar. Three hours
(See Sociology 345).

Social Work 349. Economics and Appalachian Poverty. Three hours
(See Sociology 349).

Social Work 361. Social Welfare as a Social Institution. Three hours
A study of the evolution of social welfare programing. Survey material will cover the areas of programing for education, minority groups, public and mental health, retirement and aging, corrections, and public welfare. Emphasis will be on the integration of social theory, political thought, historical perspectives and economic theory to the areas of study. Coverage of future trends in policy, legislation and programing is included.

Social Work 371-372. Methods of Social Work Practice I and II. Three hours each

Social Work 371 and 372 is a two semester study of social work practice and its methods. A concentrated effort is made to understand human behavior and common human needs, and a study is made of practice concepts of casework, groupwork and community organization. Some survey is included of newer interventive methods; special areas of interest and of the problem of social work practice. Social Work 361 is a prerequisite to Social Work 371, and Social Work 371 is prerequisite to Social Work 372.

Social Work 380. Social Work with Children. Three hours

A survey of child welfare agencies, concentrating on the problems of adoption, protective services, juvenile delinquency and school adjustment. Special interest in modification of and use of social work skills in solving these problems.

Social Work 381. Minority Groups. Three hours

(See Sociology 381).

Social Work 382. Correctional Services. Three hours

This course is designed to familiarize the student with the interplay of social, cultural, and psychological factors influencing the operation and structure of correctional systems. Emphasis will be placed on understanding the function, responsibilities, and role performances of the social worker within the correctional process.

Social Work 383. Social Policy Development and Community Organization. Three hours

This course examines the role of the social worker in social policy formulation and implementation. It includes examination of social science concepts and reviews the methods, processes and involvement in social planning.

Social Work 384. Geriatric Services. Three hours

This course surveys the special problems and needs of the aged, with focus on the role of the social worker in planning and providing services. The student is involved in lab experiences in the delivery of care to nursing patients. Coverage of existing programing and policy is provided.

Social Work 385. Social Work in the Mental Health Setting. Three hours

A study of social work methods and contributions in the psychiatric setting, knowledge and understanding of human behavior, treatment of modalities and therapy with an emphasis on an interdiscipline approach in community treatment.

Social Work 391-392. Social Work Field Practicum I and II. Six hours each

Supervised practice experience in agencies, institutions or with other social systems. Students will spend approximately sixteen hours a week in the Field and will attend a regular seminar to coordinate the field and classroom experiences; application should be made in advance to the Department of Social Work. Students may elect to take a "Block Placement" by combining the two field practicums during one semester for a total of 5 days a week in the field or 40 hours. A supervisory seminar and independent study relating to the field experience are included in the 15 semester credit hours for the Block Placement. Students should register for Social Work 391, 392, and 495B for a Block Placement, and application should be made in advance to the Department of Social Work.

Social Work 452. Abnormal Psychology. Three hours

(See Psychology 452 G).

Social Work 460. Theories of Personality. Three hours

(See Psychology 460 G).

Social Work 461. Criminology. Three hours

(See Sociology 461 G).

Social Work 495, 496. Problems in Social Work. One to three hours
Individual or group projects relating to specifically identified interests. To be arranged with instructor.

9. Appalachian Semester

Mr. Mosley Mrs. Stead Mr. Trauger

Mr. Oxendine

Appalachian Semester 345. Appalachian Semester Orientation Seminar. Three hours
(See Sociology 345).

Appalachian Semester 349. Economics and Appalachian Poverty. Three hours
(See Sociology 349).

Appalachian Semester 391-392. Social Work Field Practicum I and II. Six hours each
(See Social Work 391-392, but not available as Block Placement).

Appalachian Semester 422G. The Southern Appalachian Region. Three hours
(See Sociology 422G).

Appalachian Semester 495-496. Problems in Sociology. Six hours each
(See Sociology 495-496).

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Charles C. Saddler, Jr. — Assistant to the President
A.B., Oakland City College; M.A., University of Illinois; Colorado State College of Education, summer 1950.

Conway Boatman — President Emeritus of the College
A.B., M.Div., M.A., D.D., L.H.D.

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Andrew R. Eickhoff — Dean of the Faculty
B.S., Loyola College; M. Div., Boston University; Ph.D., Boston University; Certificate in Ecumenics, University of Geneva, Switzerland, 1955-56.

John H. Boyd — Dean of the Graduate School
Professor of Education
A.B., Western Kentucky State College; M.A., University of Kentucky; Ed.D., University of Kentucky.

Sue Dannel McDade — Registrar
B.S., Union College.

BUSINESS AFFAIRS

S. Laws Parks — Vice President for Business Affairs
B.S., Athens College; George Peabody College, 1945-47; Scarritt College, summer 1946; University of Kentucky, summers 1954-56.

Clarence H. Chadwell — Bookkeeper and Assistant Treasurer
B.S. in Ed., Union College; Eastern State College, 1960-61.

Mildred E. Maggard — Student Loan Officer

Nola M. Williams — Assistant to the Bookkeeper

Boyd R. Todd — Business Manager
A.B., Union College; M.A., Union College.

Joe C. Hacker — Director of Data Processing Center
Assistant Professor of Business
B.S. in Ed., Union College; M.A., Eastern Kentucky State College; Workshop in Family Finance, University of Georgia, summer 1962; University of Tennessee, summers 1963, 1964, 1966.

Bruce R. Presnell — Assistant Director of Data Processing Center
B.S., Union College.

Bobbie Burgess — Bookstore Clerk

Esten P. Parks — Post Office Clerk

STUDENT AFFAIRS

Robert J. Clement — Dean of Students and
Dean of Men
A.B., Union College; M.A., Union College; University of Kentucky, 1972-73.

Donnie Roy Looper — Night Manager, Student Center
B.S., Union College

Doris L. Mays — Dean of Women
and Instructor of Elementary Education
B.S., Union College; M.A., University of Kentucky; Eastern Kentucky University, fall 1966; Union College, summer 1970.

Frances Patridge — Director of Student Activities
Associate Director of Student Center
Associate Professor of Physical Education

B.S. in Ed., University of Arkansas; M.A., George Peabody College for Teachers; University of Southern California, summer 1958; Indiana University, summer 1960.

Edward H. Black — Director of the Student Center
Director of Career Planning and Placement

A.B., Union College; M.A., Union College.

H. B. Harris — Counselor

A.B., Morehouse College; University of Missouri School of Social and Community Services, fall, 1966; D.D., Simmons University.

Lucille Robbins — College Nurse

R.N., Nazareth School of Nursing.

COLLEGE RELATIONS AND DEVELOPMENT

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A.B., Union College; M.A., University of Kentucky.

James C. Nelson — Director of Public Information and Development Officer

A.B., Union College; Wright State University, evening, 1968-69; University of Dayton, evening, 1969-70.

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Larry Inkster — Admissions Counselor

B.S., M.A., Union College.

Frederick Ley — Admissions Counselor

Denise Cope — Part-time Admissions Counselor

John A. Schilt — Part-time Admissions Counselor

B.S., Union College

Catherine F. Singer — Director of Alumni Affairs

A.B., Union College; University of Chicago, summer, 1932; Union College, 1934-35; Union College, summers 1936, 1961.

PHYSICAL PLANT MANAGEMENT

Marshall B. Potter — Superintendent of Buildings and Grounds

Eugene Branstutter — Assistant Superintendent of Buildings and Grounds

Williard Sprinkles — Plant Engineer

The Faculty

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A.B., Mississippi State College for Women; M.A., Teachers College, Columbia University; ibid, summers 1932, 1945; Ohio State University, summer 1940; University of Southern California, summer 1958.

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Associate Professor of Music
B.M., Western Michigan University; M.M., Indiana University, Pupil of Julius Stulberg, David Dawson, Otto Wimmler, in Strings; Wolfgang Vacano, in Conducting. Indiana University, summers 1963, 65, 66, 67, 70; 1969-70 academic year; summer, 1971.

Walter Gunderson, A.A., B.M.E., M.A. 422 North Main Street
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B.A., Morehead State University; M.A., Bowling Green State University; M.F.A., Bowling Green State University; John Herron Art Institute, Indianapolis, summer 1965.

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Instructor of Music
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B.S. in Ed., Juniata College; M.A., University of Michigan; Ph.D., Pennsylvania State University; European study and travel, 1968.

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B.S., University of Louisville; M.S.S.W., Kent School of Social Work.

Shirley W. Allen, B.S., M.A. London
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B.S., Union College; M.A., University of Kentucky.

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B.A., Northeastern Illinois University; M.S.W., University of Kentucky.

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B.B.A., Eastern Kentucky University; M.B.A., Eastern Kentucky University.

Library

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Head Librarian and Associate Professor of Library Science
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The Alumni Association

Dr. Mary Pauline Fox ..... President
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Union College Graduate School Administration

Mahlon A. Miller ..... President
John H. Boyd ..... Dean of the Graduate School
Andrew R. Eickhoff ..... Dean of the Faculty
Sue McDade ..... Registrar

Graduate Council

John H. Boyd	Dean of the Graduate School
Andrew R. Eickhoff	Dean of the Faculty
C. Wesley Simms	Chairman Division of Education
Erwin S. Bradley	Chairman Division of Social Science
Frank Merchant	Graduate Professor of English
Deril K. Mays	Head of the Department of Behavioral Sciences
Paul S. Moore	Chairman Division of Health and Physical Education

The Graduate Faculty

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Director of Environmental Education Center

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Professor of Education

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Wilmer K. Trauger, A.B., M.A., Ph.D.
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Harry Zuger, B.A., M.A., Ph.D.
Professor of English

Health Services

Lucille Robbins, R.N. ..... College Nurse
Dale Moore, R.N. ..... Part-time College Nurse

Geographical Distribution of Students

1973-74 Academic Year
First Semester

States

Connecticut	7	Massachusetts	13	Pennsylvania	28
Delaware	4	Michigan	5	Rhode Island	1
Florida	1	Minnesota	1	Tennessee	148
Georgia	2	New Jersey	63	Texas	3
Illinois	2	New York	37	Virginia	51
Indiana	5	North Carolina	1	Washington	1
Maine	1	Ohio	42	West Virginia	2
Maryland	14				

Foreign Countries

Iran	13	Thailand	1	Vietnam	1

Kentucky Counties

Bell	27	Harrison	1	Lincoln	1
Bourbon	1	Jackson	1	Livingston	1
Boyd	3	Jefferson	6	Mercer	1
Breathitt	1	Kenton	2	Oldham	1
Campbell	2	Knott	1	Perry	3
Carroll	2	Knox	203	Pulaski	8
Clay	32	Laurel	18	Russell	2
Fayette	2	Lee	1	Wayne	2
Fleming	1	Leslie	7	Whitley	20
Franklin	1	Letcher	8	Woodford	4
Harlan	51				

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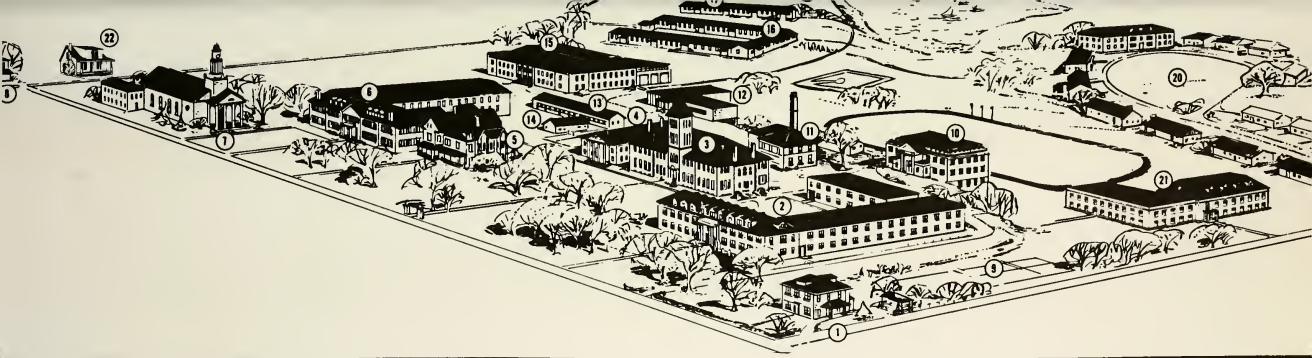

1. Baldwin Place, President's Residence
2. Stevenson Hall, Men's Residence
3. Classroom Building
4. Library
5. Speed Hall, Administration Building
6. Pfeiffer Hall, Women's Residence
7. Conway Boatman Chapel—Fine Arts Building
8. Home Economics Building
9. Tennis Courts
10. Dramatic Arts Center
11. Business Department
12. Student Center
13. Storage Buildings
14. Data Processing Center
15. Physical Education Building and Swimming Pool
16. College Courts, Married Students Apartments
17. College Courts Addition
18. Lakeside Hall, Men's Residence
19. Bureau of Mines Education Center
20. College Park, Faculty Housing
21. Mahlon Miller Science Center
22. Mental Health Center

New Mahlon Miller Science Center

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